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ABSTRACT

A presentation is made of five award-winning designs for a fireproof community recreation facility, on a selected site in New York City, incorporating a fallout shelter as a dual-purpose space. Graphic illustrations are given of the award winning designs, each of which used one of the following solutions--(1) the fallout structure above grade with minimum open land saved, (2) the fallout structure above grade with varied levels to provide more open land areas, and (3) the major portion of the structure below grade with stepped roof levels above grade to provide maximum open land area. (FS)

THE THIRTY-SEVENTH ANNUAL COMPETITION OF THE

BROOKLYN CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS

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A COMMUNITY FACILITIES CENTER WITH FALLOUT SHELTER AS DUAL PURPOSE SPACE

TR.-42. February 1967

ED035193

PROBLEM

The design of a fireproof community facilities center, on the selected site, incorporating a fallout shelter as dual-purpose space. Design must comply with N.Y.C. Zoning.

CONCEPTS

The award winners solved the problem in one of the following manners

1. The full structure above grade with minimum open land saved
2. The full structure above grade with varied levels to provide more open land area
3. The major portion of the structure below grade with stepped roof levels above grade. This was to provide maximum open land area

It was the opinion of the jury that the First prize solution solved the problem in a practical manner and the appearance of the structure would enhance the surrounding community.

JURY

I. DONALD WESTON President—Brooklyn Chapter, A.I.A.
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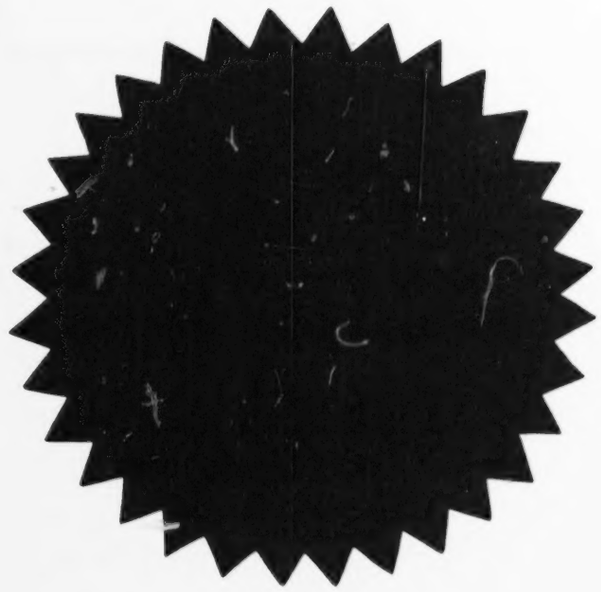


AWARDS

1st Prize—Michael A. Nicholosi—Institute of Design and Construction.
2nd Prize—Anthony Giordano & Norman Becker—College of the City of New York.
3rd Prize—Micha Botknecht & Paul Holub—College of the City of New York.
4th Prize—M. Kawer & M. Frankel—College of the City of New York.
Honorable Mention—Sheldon Swirski & Joseph Kent—College of the City of New York.
Mention—Bruce J. Levy—Institute of Design and Construction.
Mention—Alfred Salanitro & Edgar Bermudez—College of the City of New York.

A COMMUNITY FACILITIES CENTER WITH FALLOUT SHELTER AS DUAL PURPOSE SPACE

The selected area contains a high population count, substandard residental buildings of all types, inadequate community facilities, and does not have a designed fallout shelter.

- SITE a full block in Bedford-Stuyvesant Area. 200′ along both avenues and 600′ along both side streets. Zoning is R-6. Grade elevation is constant. Existing buildings, of frame construction, are to be removed. subsurface conditions are uniform thruout. Consider bearing capacity of subsurface to be 3 tons per square foot.

- BUILDING SIZE Roof and First Floor each, to have 40,000 square foot area. The Cellar may be larger in area and contain the storage facilities outside of the building perimeter.

- ROOF FUNCTIONS
  - sport activities
  - control Office
  - social functions—dancing, meetings, movies, etc.
  - nursery and kindergarten activities
  - fencing, landscaping, sculpture, etc.
  - portable or fixed transluscent roofing as protection against the elements
  - toilet facilities
  - storage facilities, etc., as required, incidental to Roof functions

FIRST FLOOR FUNCTIONS

1

ADMINISTRATIVE

a. Administrative Office—400 square feet
b. Administrative Assistant's Office—300 square feet
c. Custodian—Civil Defense Representative—300 square feet
d. Clerical staff, file room, switchboard room, etc.—600 square feet
e. Civil Defense and Social Workers Office—500 square feet
f. Lounge and small kitchen—300 square feet
g. Toilet facilities—men and women

2

ENTRANCES AND EXITS

a. Main entrance
b. Secondary entrances and exit facilities
c. All entrances and exits must be controlled
d. Service entrance
e. Exits must comply with N.Y.C. Code requirements

3

INTERIOR SPACE FUNCTIONS

a. Meeting Room—portable seats—400 people—coat room—4,000 square feet
b. Lobby with display facilities—1,000 square feet
c. Wood working shop and storage—1,400 square feet
d. Metal working shop and storage—1,400 square feet
e. Art room and storage—1,400 square feet
f. Electrical shop and storage—1,400 square feet
g. Photographic studio, dark room and storage—1,400 square feet
h. 6 meeting rooms—movable seats—500 square feet each
i. Branch Public Library with separate Street entrance—20,000 square feet
j. Enclosed stairs from Cellar to Roof—must comply with N.Y.C. Code
k. Public Toilets—men and women

CELLAR AREA FUNCTIONS

1

SHELTER DESIGN

a. Provide shelter for 4,000 people
b. Construction shall conform with OCD requirements
c. Space and ventilation requirements per person shall conform with OCD specifications
d. Egress from shelter area shall conform with OCD requirements
e. Incidental Services—storage of basic shelter supplies shall conform with OCD requirements. Provide space for motor generator set and fuel tank to generate emergency electricity for shelter illumination and motor power. Provide space for water well, pump and tank. All of these Services may be located, at Cellar level, but outside of building area, providing that the roof and enclosure wall construction meets with N.Y.C. code.Not O.C.D. requirements: generator, well, pump, and tank.
f. Exterior entrances and interior stair enclosures shall conform with N.Y.C. requirements.

2

ACCESS TO SHELTER AREA MUST COMPLY WITH N.Y.C. CODE

3

INTERIOR SPACE FUNCTIONS

a. Control office and storage
b. Toilets, showers and locker rooms
c. Movable fireproof and soundproof partitions to subdivide space into units for indoor activities—include storage facilities—softball, basketball, handball, touch football, gymnastics, mass meetings and portable seating for spectator and shelter use.
d. Mechanical ventilation must comply with N.Y.C. Code requirements when not used as a fallout shelter.
e. Electrical distribution and boiler room

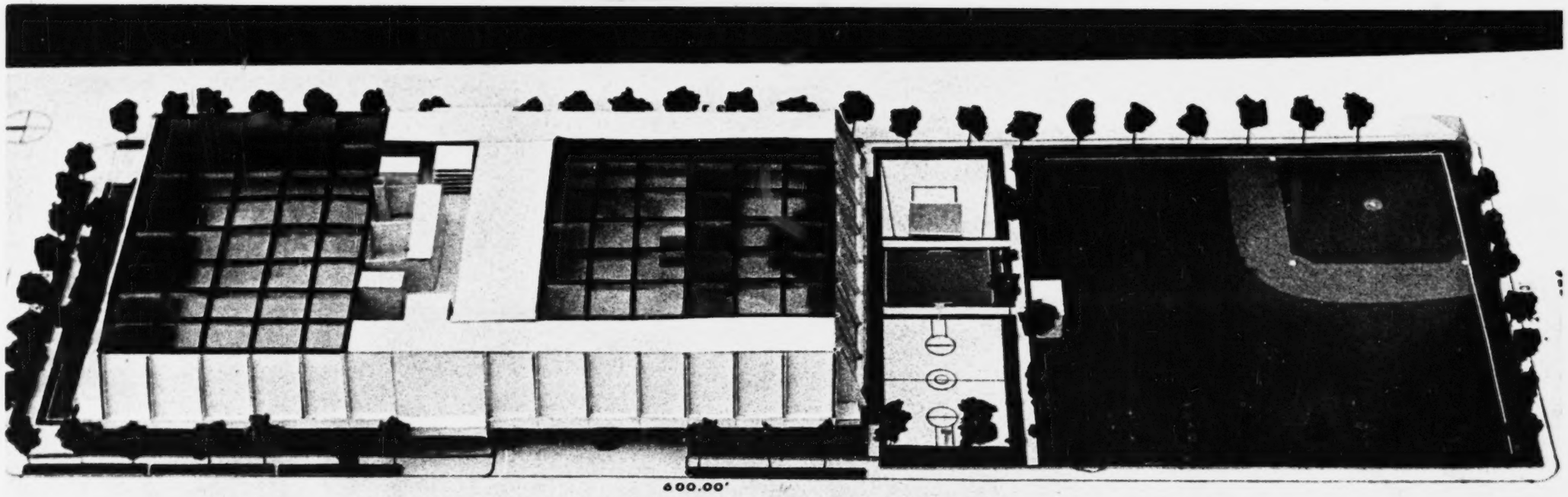
■ OUT DOOR AREA FUNCTIONS

Control office and storage
Service driveway and parking for 1 truck and 6 cars for staff
Decorative treatment:—landscaping, sculpture, fencing, seating and fountain using circulating well water
Activities:—softball, handball, basketball, wading pool, area to be flooded for ice skating, quiet adult area and children play area; area to be floodlighted for night time use.

PRESENTATION Must be presented on 20″x 30″ boards—in black and white medium for photographing.

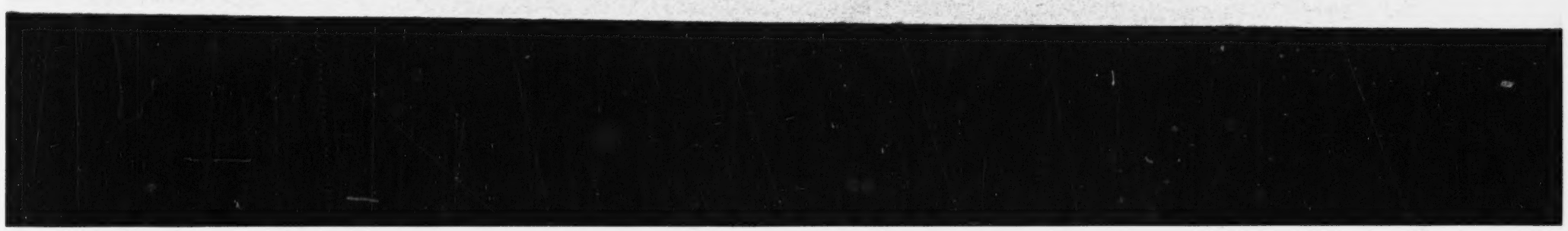
1. Plot plan at a scale of 1″ equals 25 feet to show building on site and outdoor area functions or a Model at the same scale.
2. All floor plans at a scale of 1/16″ equals 1′-0″.
3. Cross sections of building and to show fallout shelter construction.
4. Small sketch perspectives of interesting design and construction details.

PRESENTATIONS



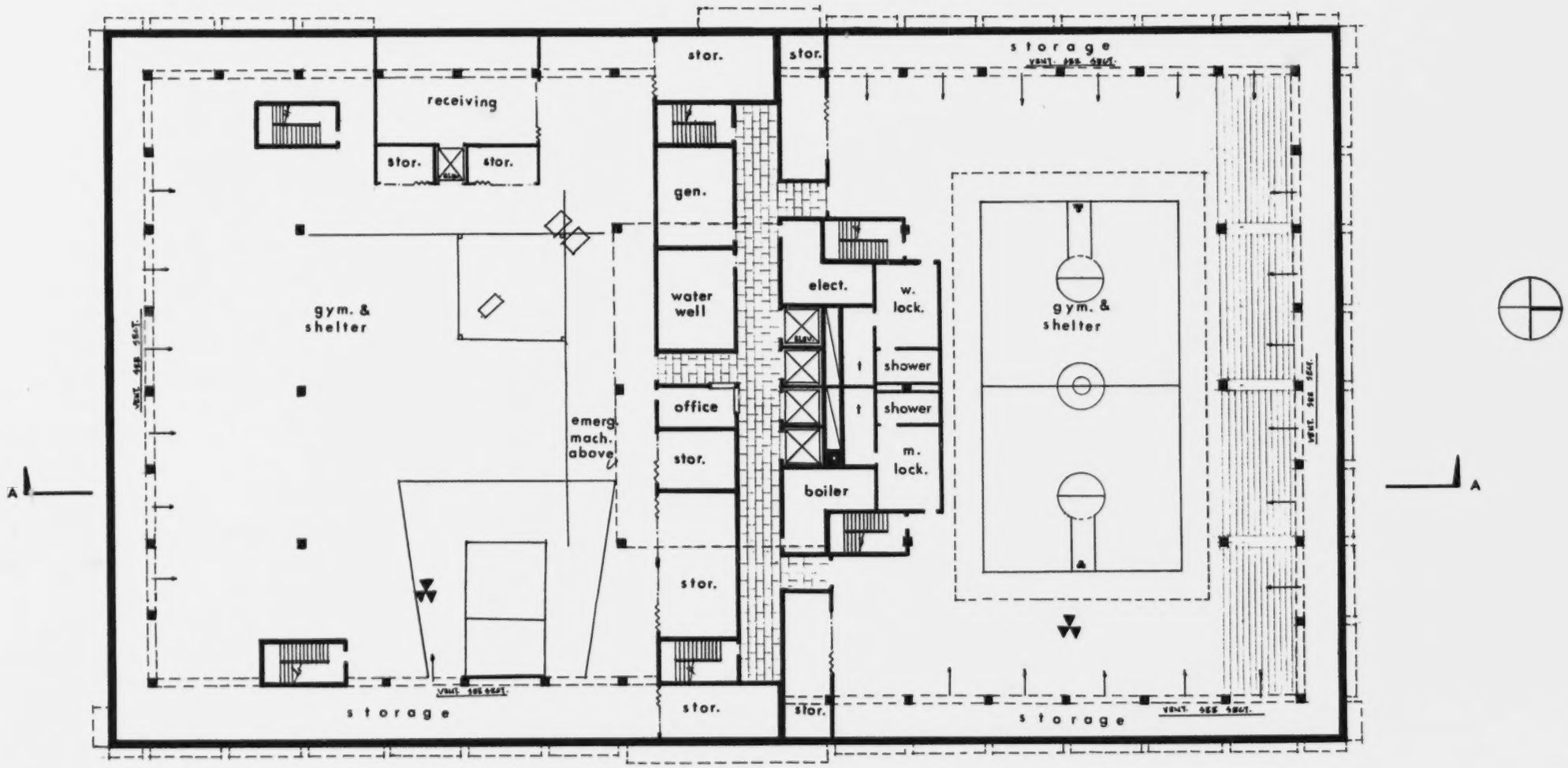
SITE PLAN

•A COMMUNITY FACILITIES CENTER WITH PUBLIC FALLOUT SHELTER AS DUAL-PURPOSE SPACE



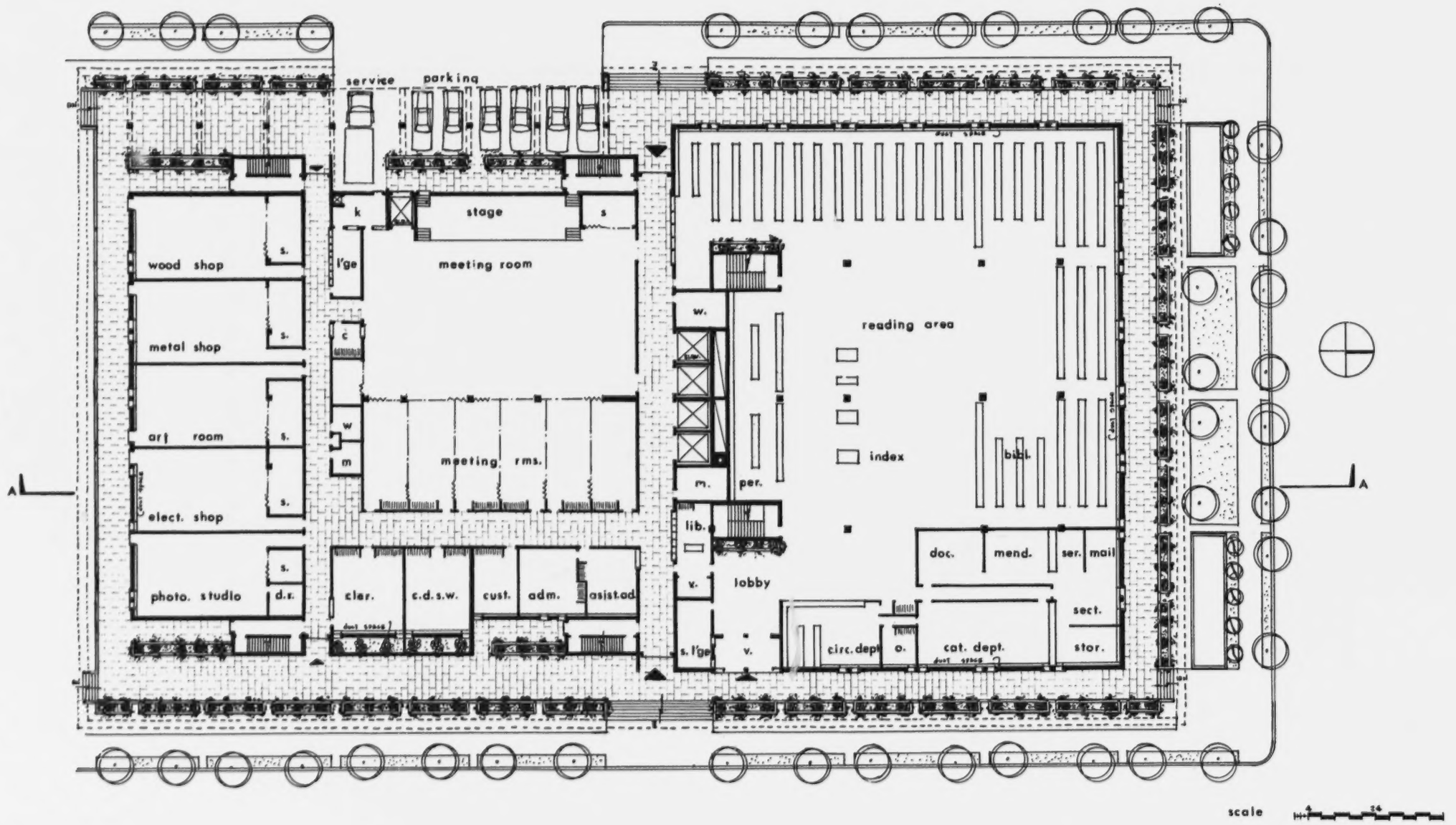
1ST PRIZE—MICHAEL A. NICHOLOSI
INSTITUTE OF DESIGN AND CONSTRUCTION.

1-1 MODEL

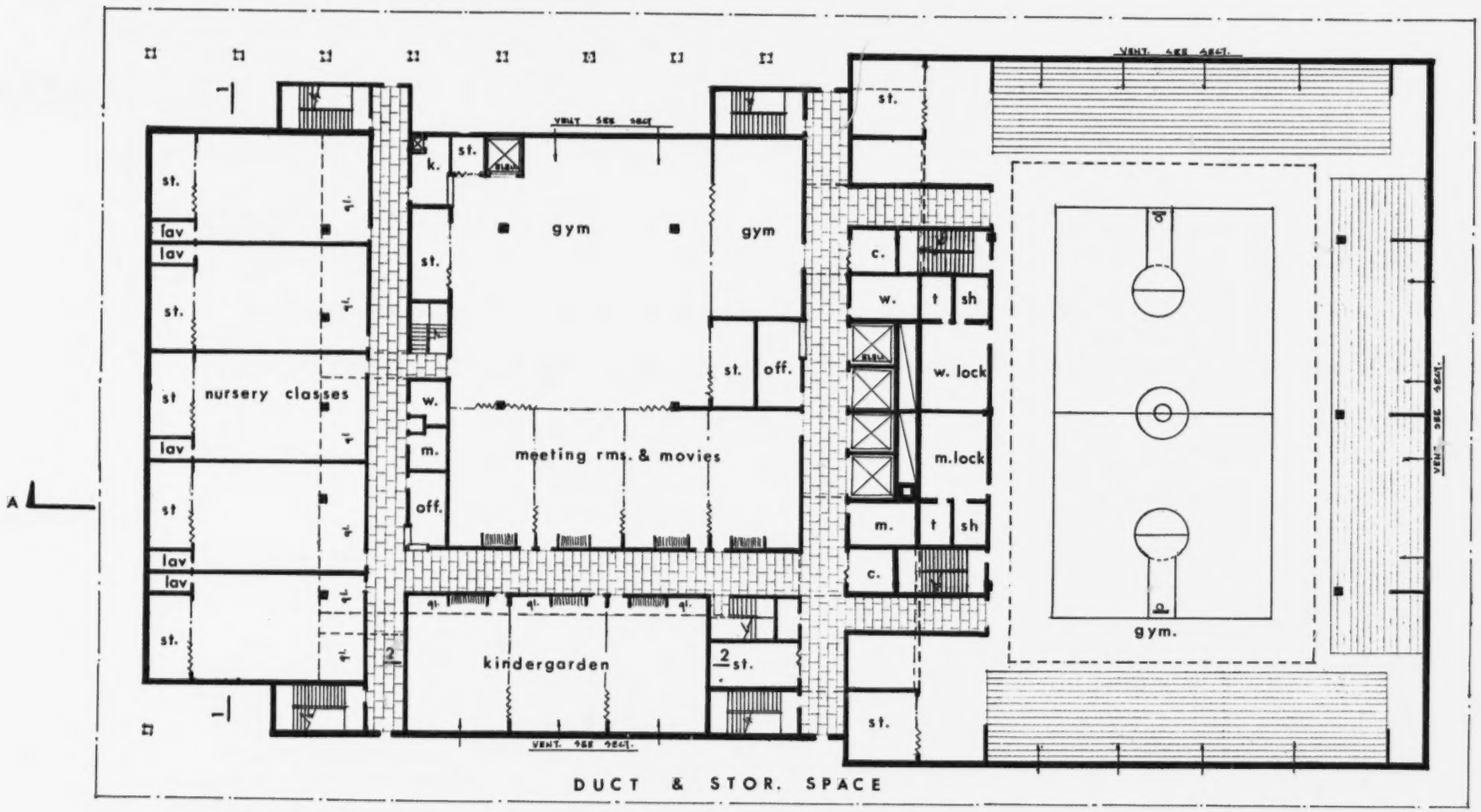


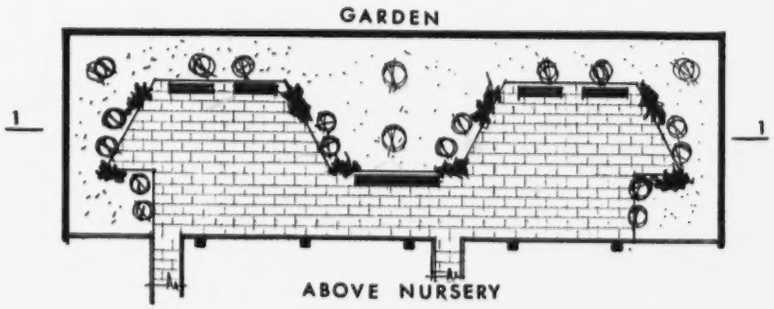
scale 4 24

1-2 CELLAR FUNCTIONS



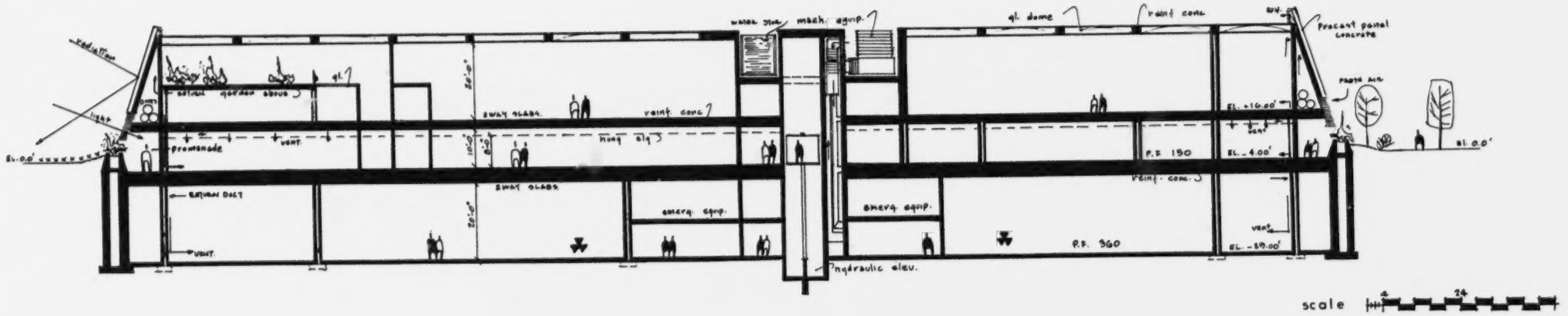
1-3 FIRST FLOOR FUNCTIONS

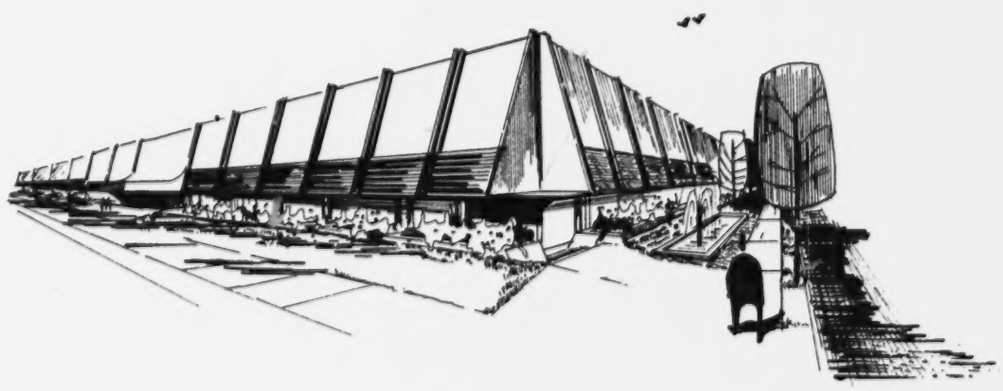




scale

1-4 ROOF FUNCTIONS

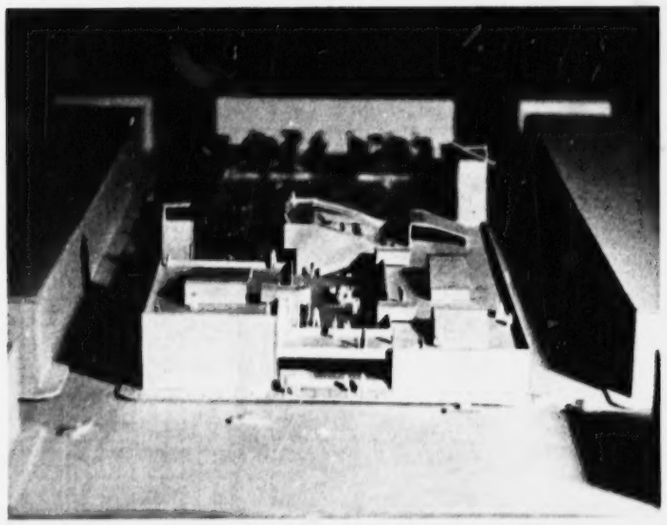




1-5 AVENUE PERSPECTIVE

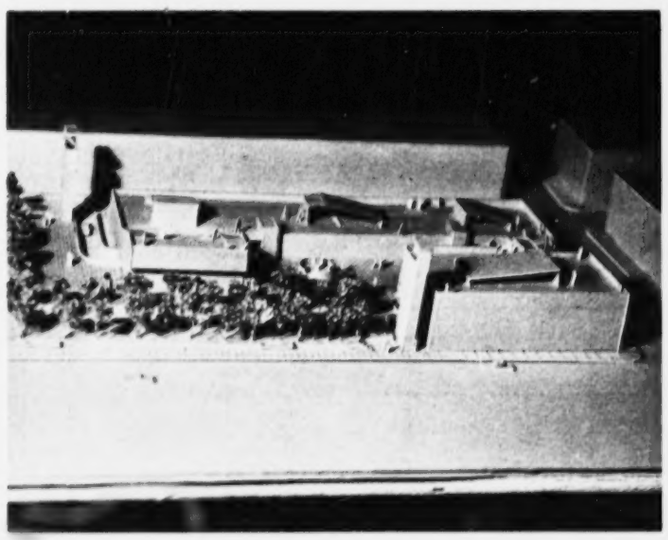
LONGITUDINAL SECTION

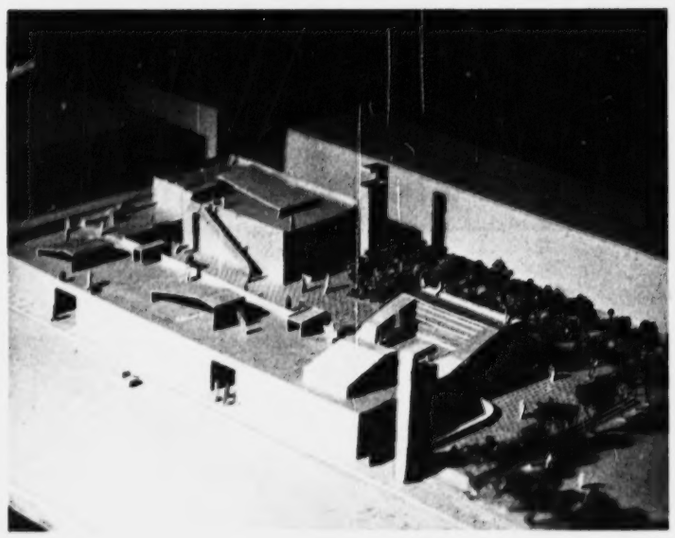
TYPICAL PROMENADE

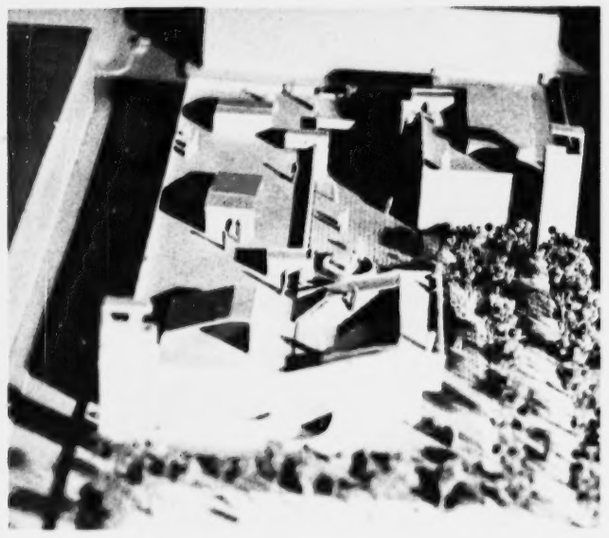


THE DESIGN ATTEMPTS TO MAKE THE BUILDING FORM AND THE OUTDOOR PLAY AREAS INTERLOCK AND IN SO DOING CREATE AN INTERIOR PLAZA. THE SHELTER IS BELOW THE BUILDING-PLAZA COMPLEX AND IS REACHED BY TWO RAMPS FROM THE STREET AND A CIRCULAR RAMP CONTAINING THE FOUNTAIN WHICH IS THE FOCAL POINT OF THE PLAZA. ENTRANCE TO STREET RAMPS ARE SIGNALED TO THE SURROUNDING COMMUNITY BY A HIGH TOWER STRUCTURE AT EACH RAMP WHICH CONTAIN MAIN VENTILATION FOR THE SHELTER AND ALARM SYSTEMS.

A COMMUNITY FACILITIES BUILDING WITH FALLOUT SHELTER

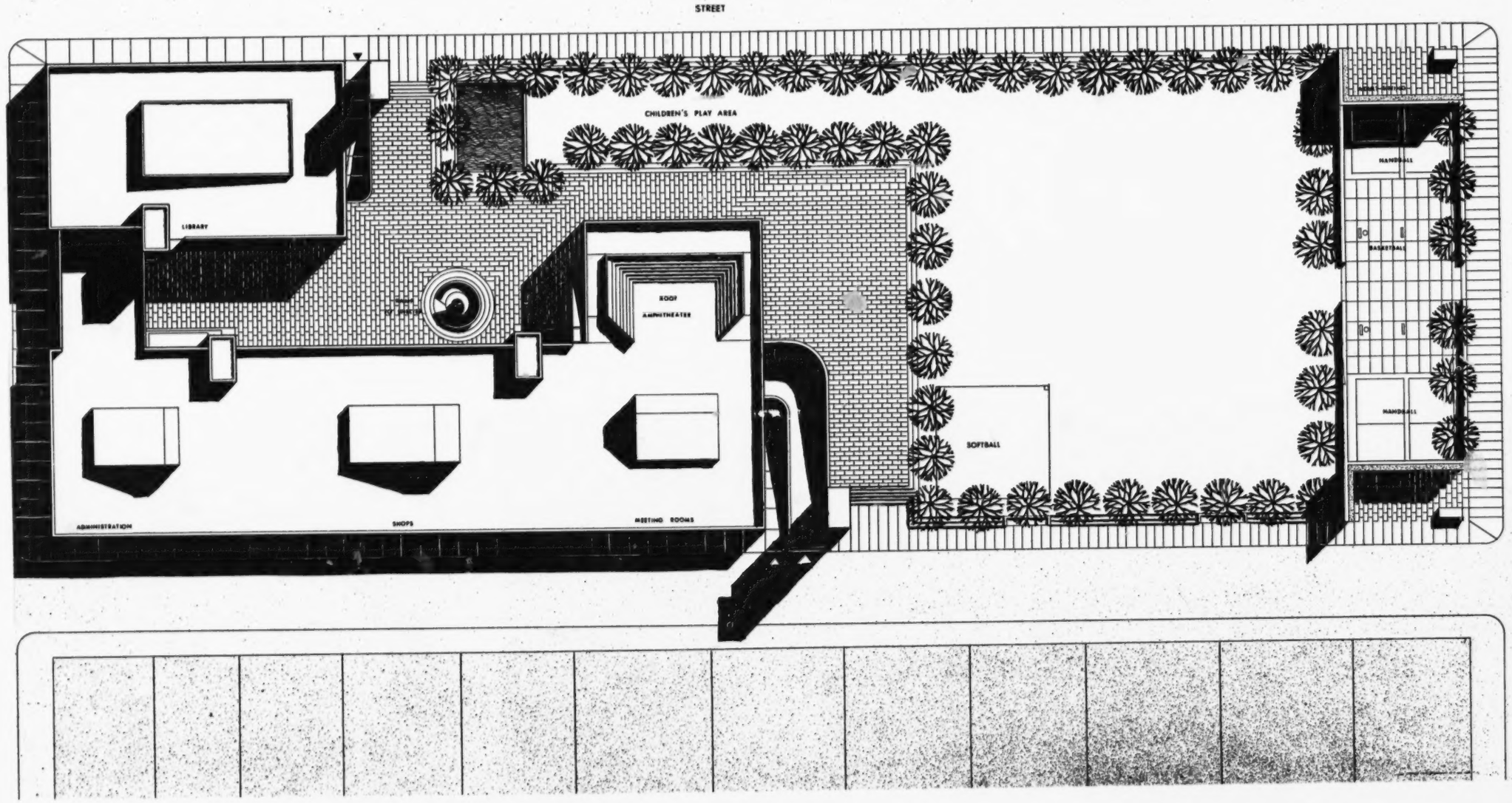




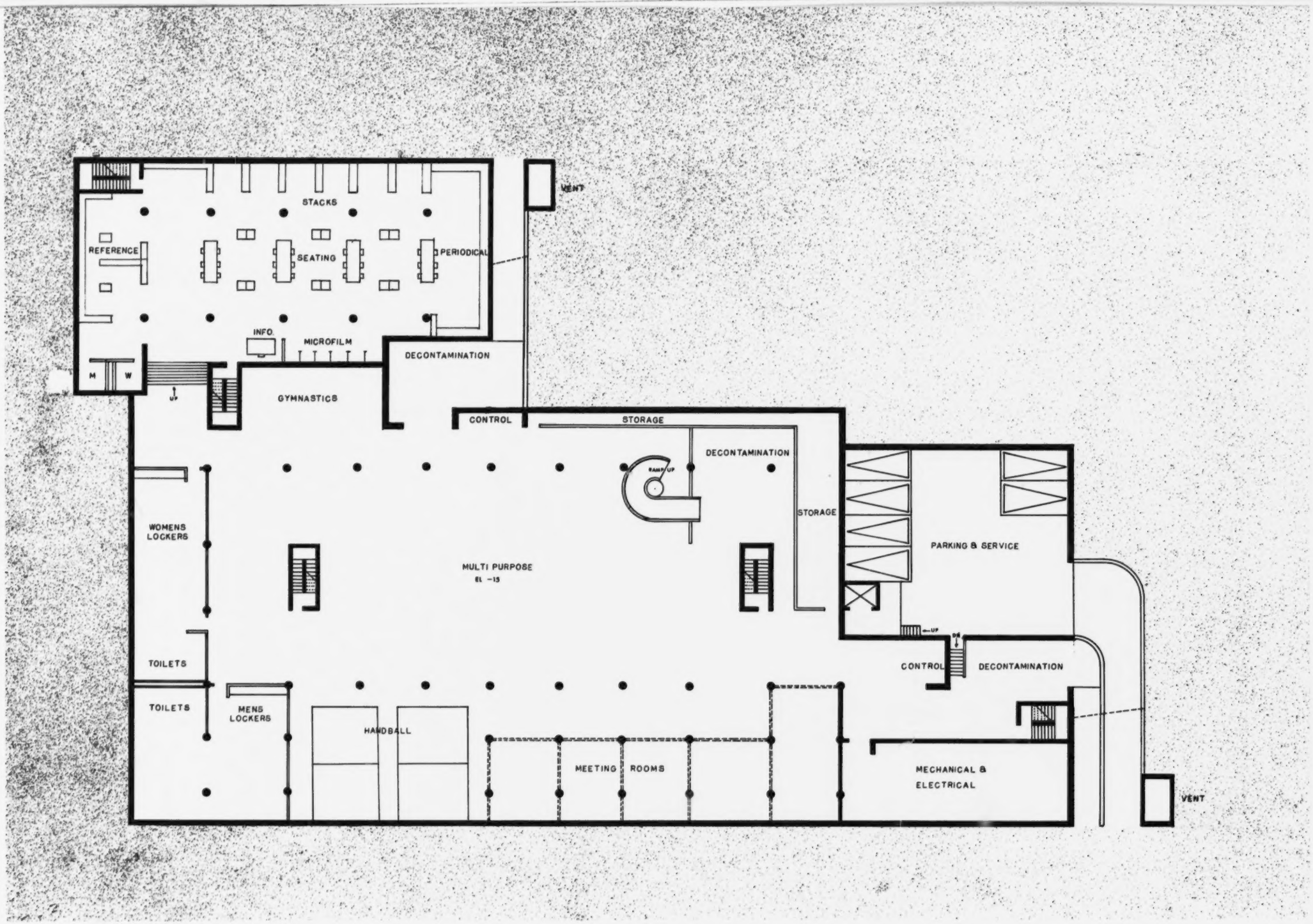


2-1 MODEL

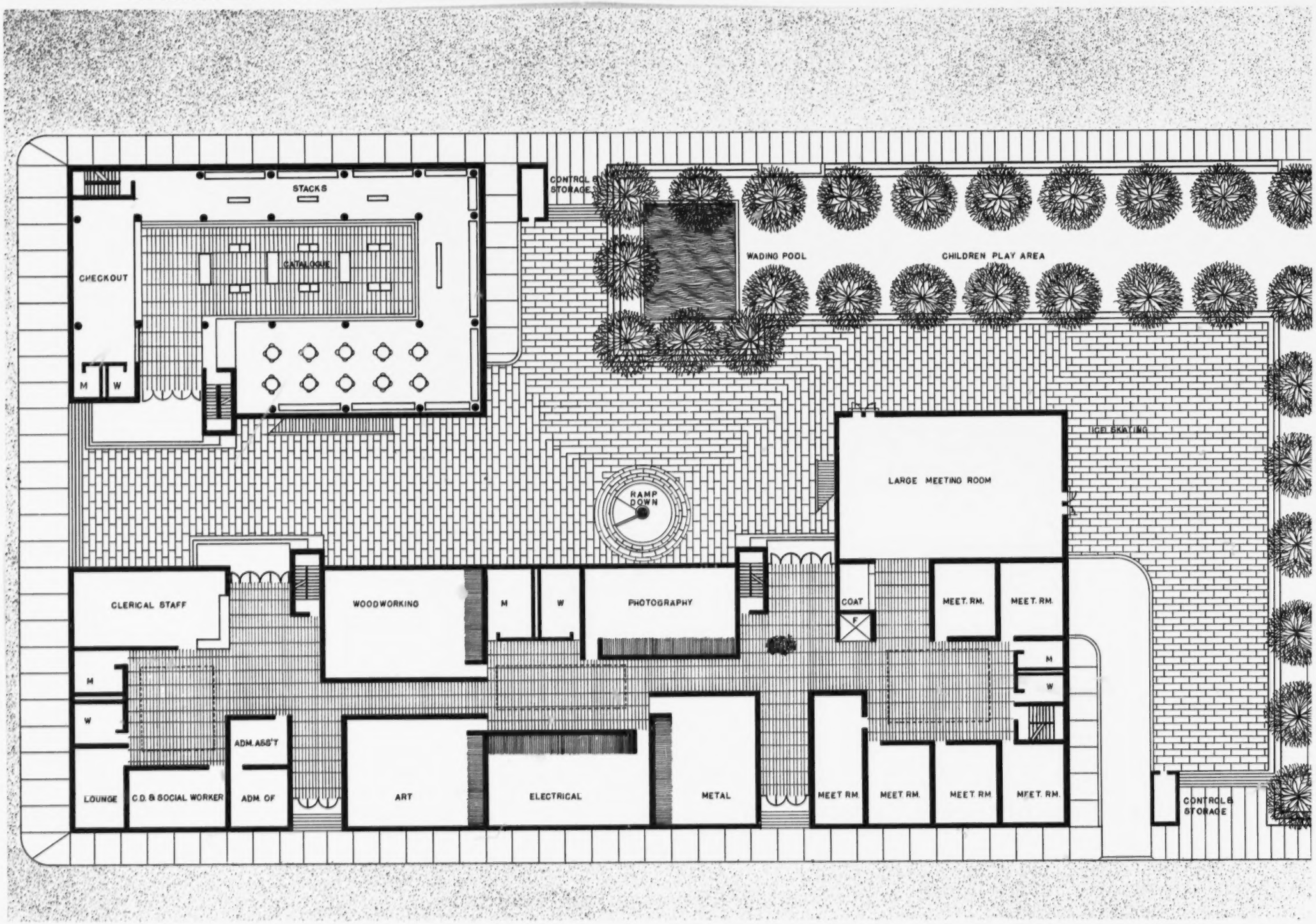
2ND PRIZE—ANTHONY GIORDANO
NORMAN BECKER
COLLEGE OF THE CITY OF NEW YORK.


STREET
CHILDREN'S PLAY AREA
LIBRARY
ROOF
AMPHITHEATER
ADMINISTRATION
SHOPS
MEETING ROOMS
SOFTBALL
HANDBALL
BASKETBALL
HANDBALL

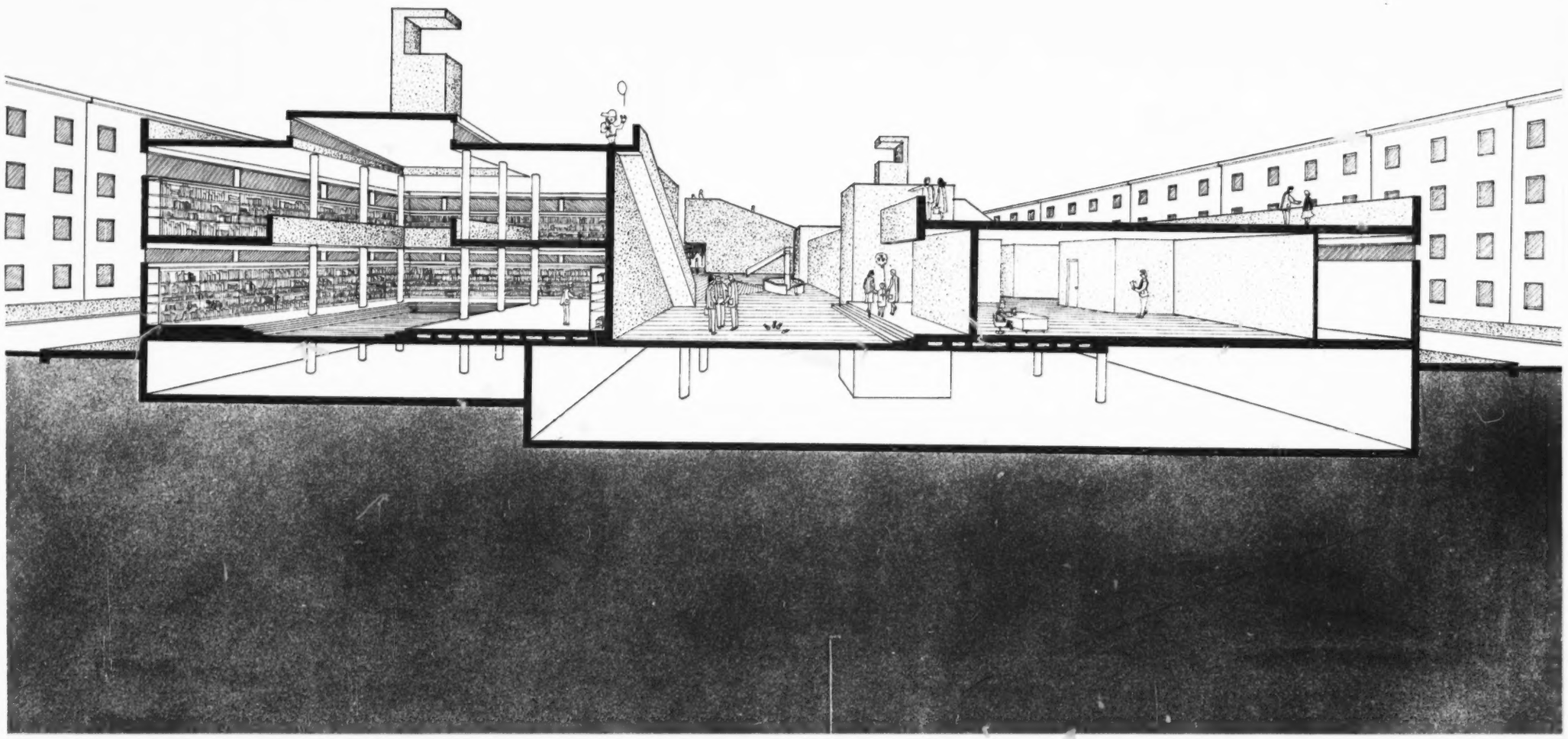
2-2 SITE PLAN



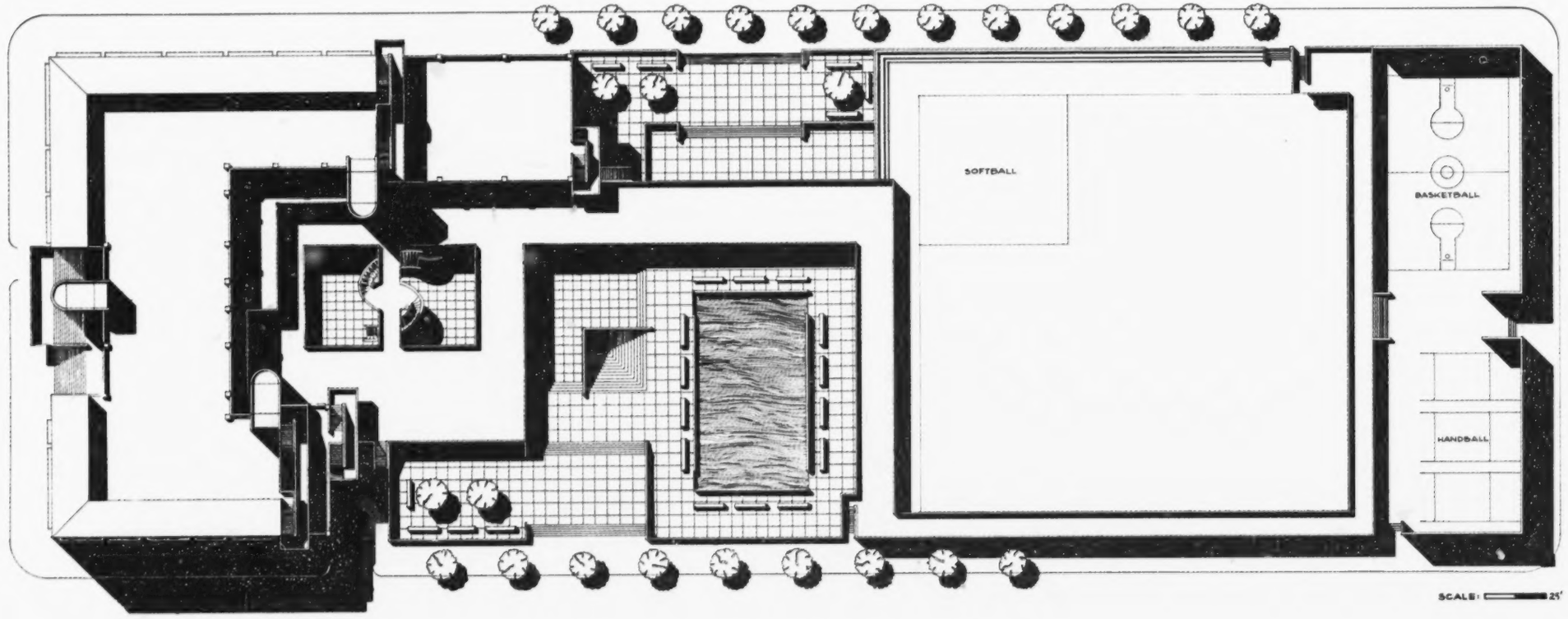
2-3 SHELTER LEVEL

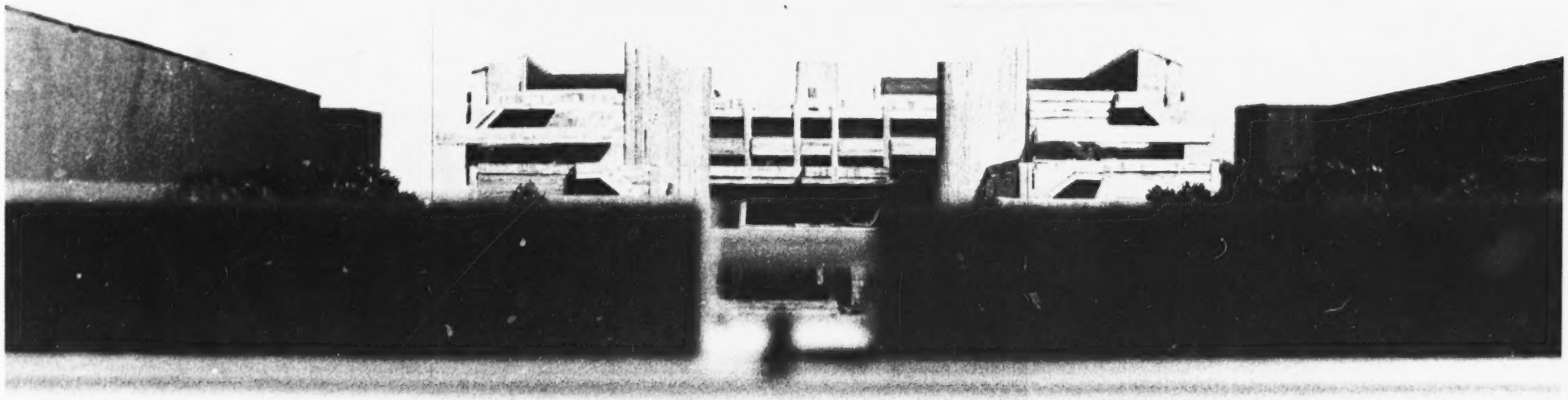


2-4 FIRST FLOOR



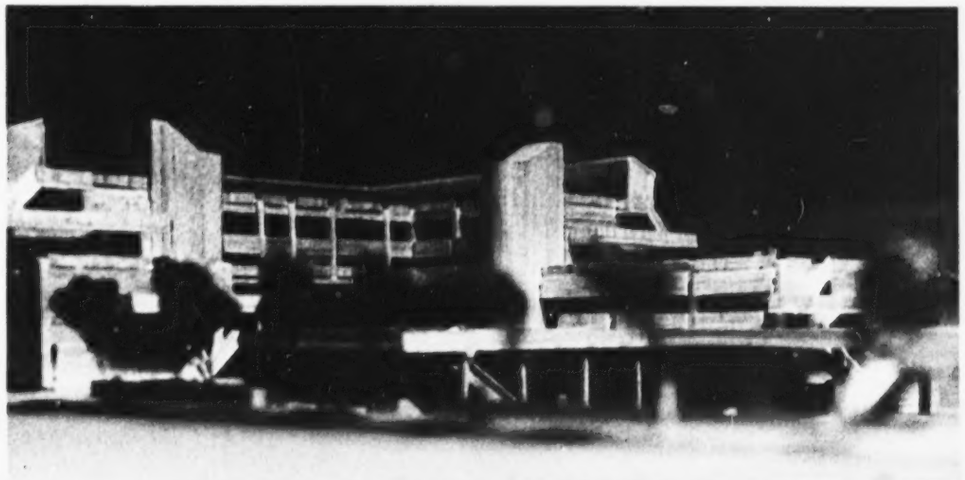
2-5 PERSPECTIVE



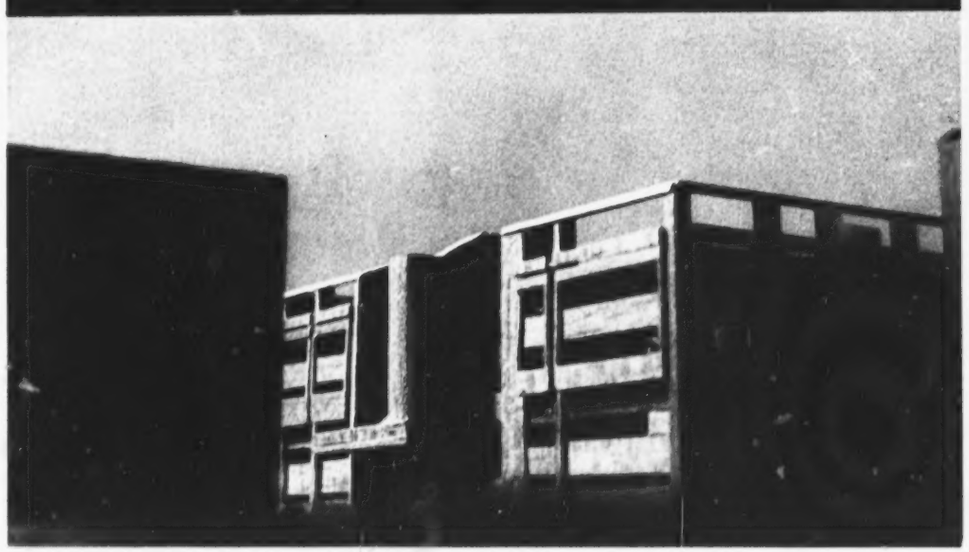


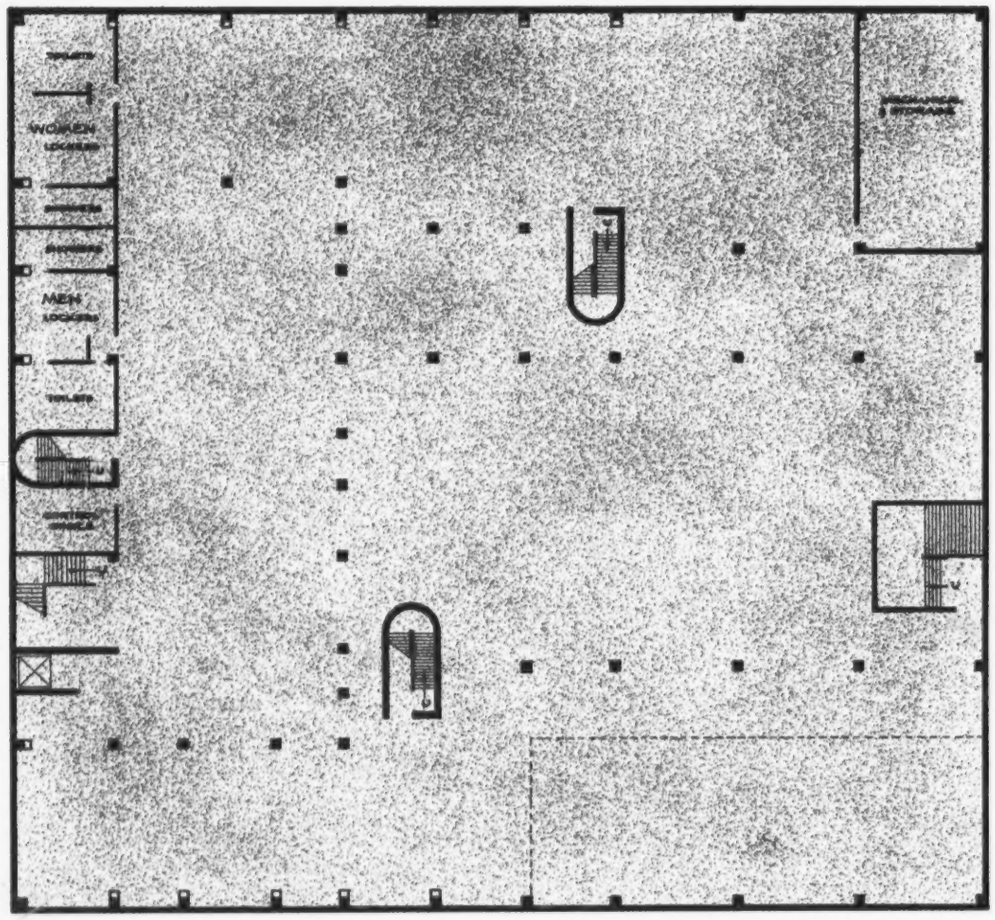
3RD PRIZE—MICHA BOTKNECHT
PAUL HOLUB
COLLEGE OF THE CITY OF NEW YORK.

3-1 MODEL SITE PLAN



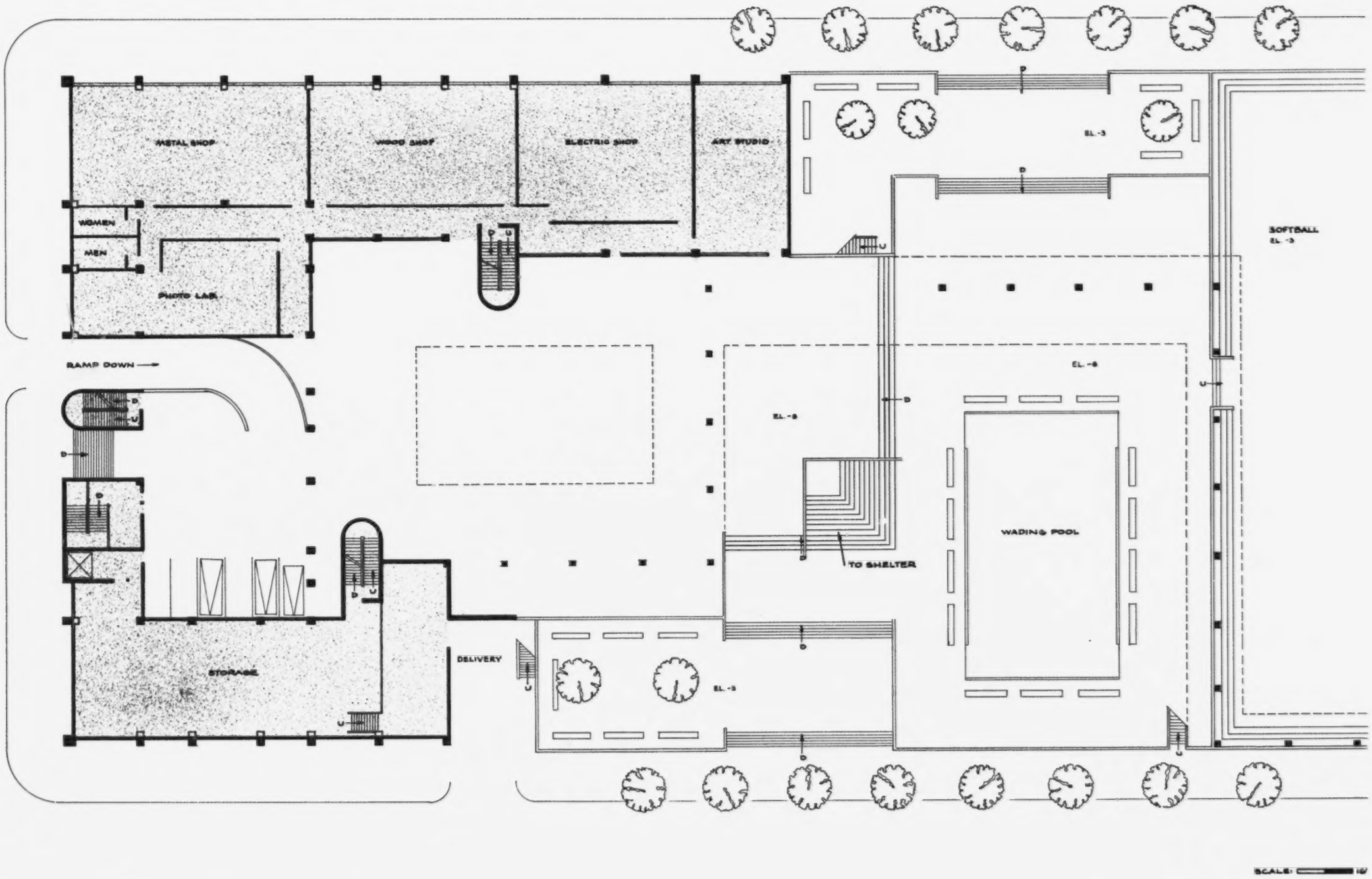
The intent of this solution was to make the community center of primary visual importance and the fallout shelter secondary while serving as an indoor play area during bad weather. Ventilation ducts to the shelter run from inverted intakes on the roof down through the exterior columns. The building and the walls of the handball and basketball courts define the street of this urban site and are unified by the elevated walkway which also serves as a sunshade for spectators. The complex steps down toward the center of the block where the main entrance of the shelter is prominently located.



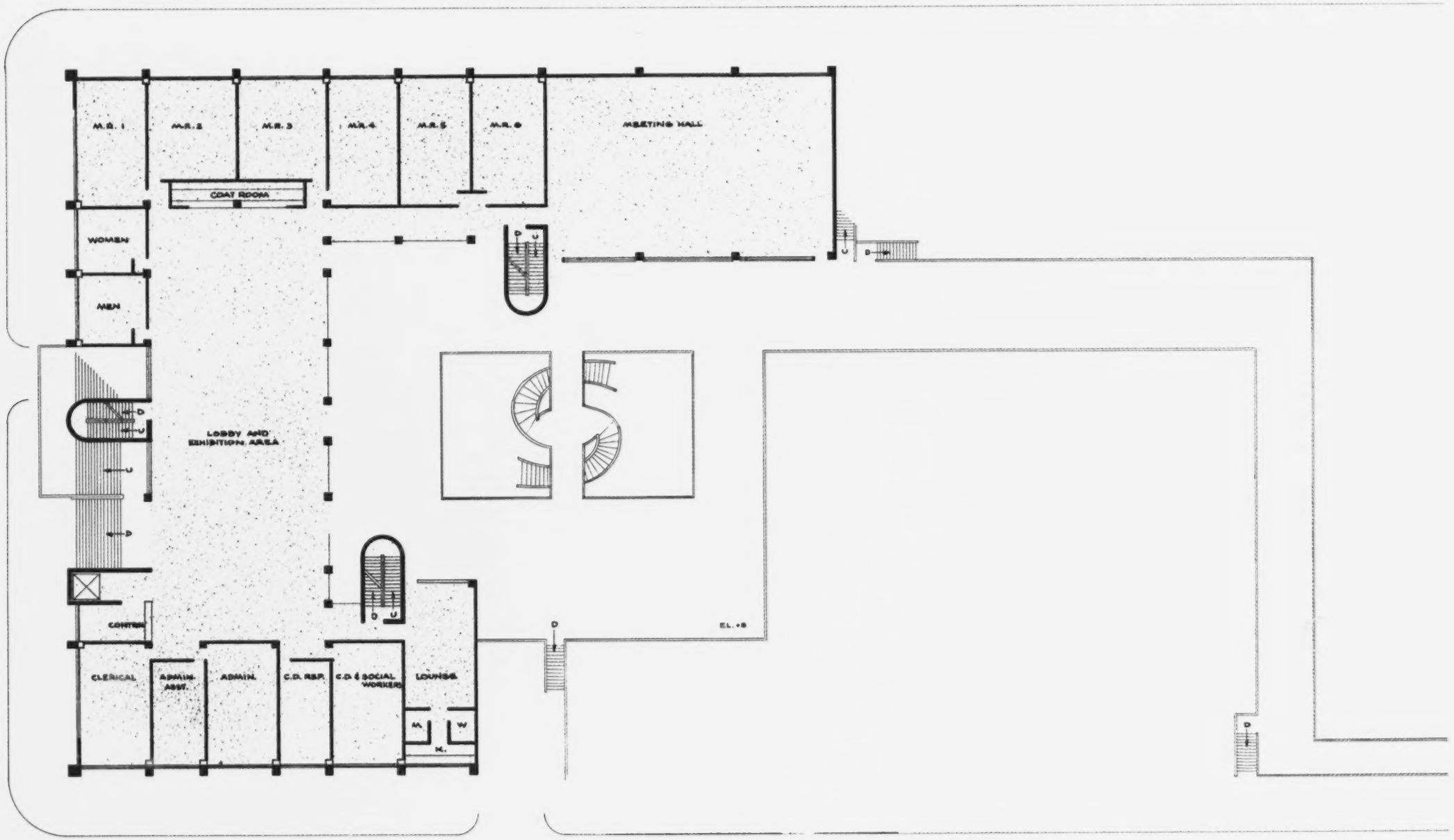


SCALE: 10'

3-2 CELLAR FLOOR–SHELTER

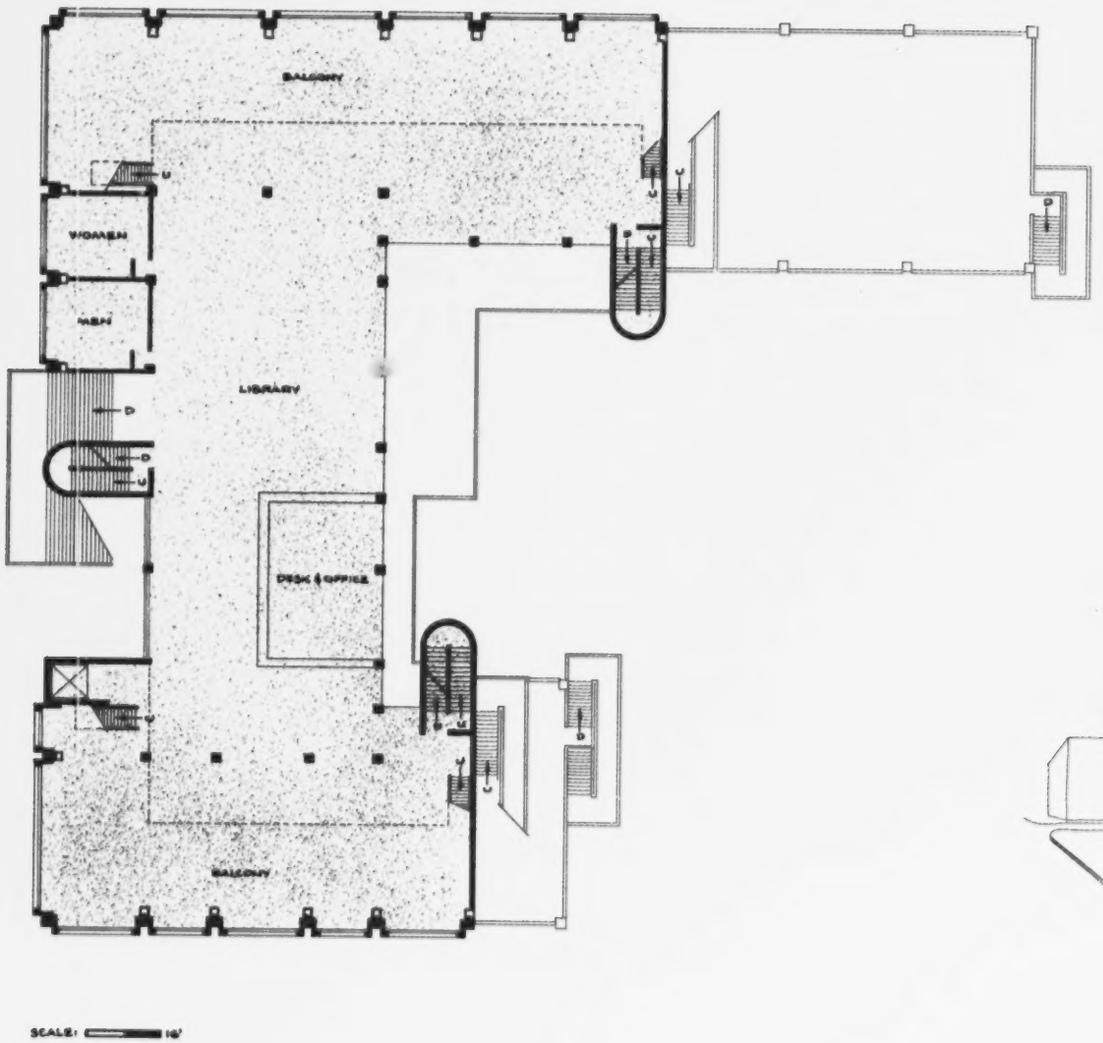


3-3 GROUND FLOOR—PLAZA & SHOPS

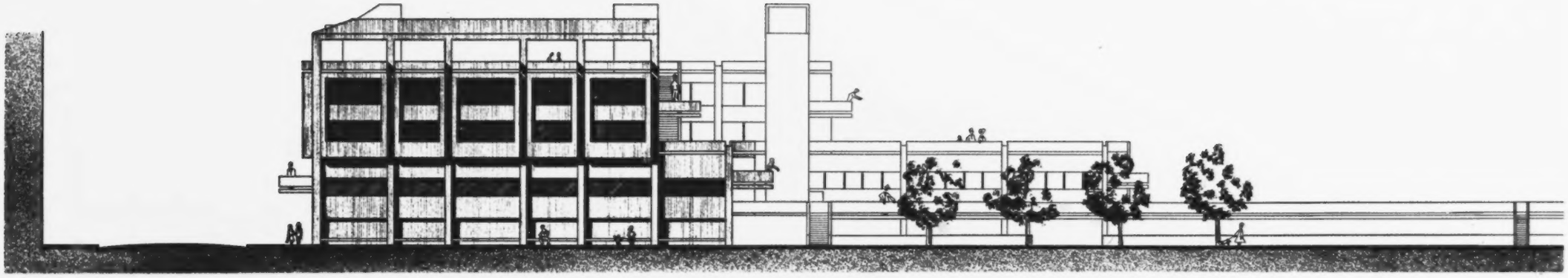


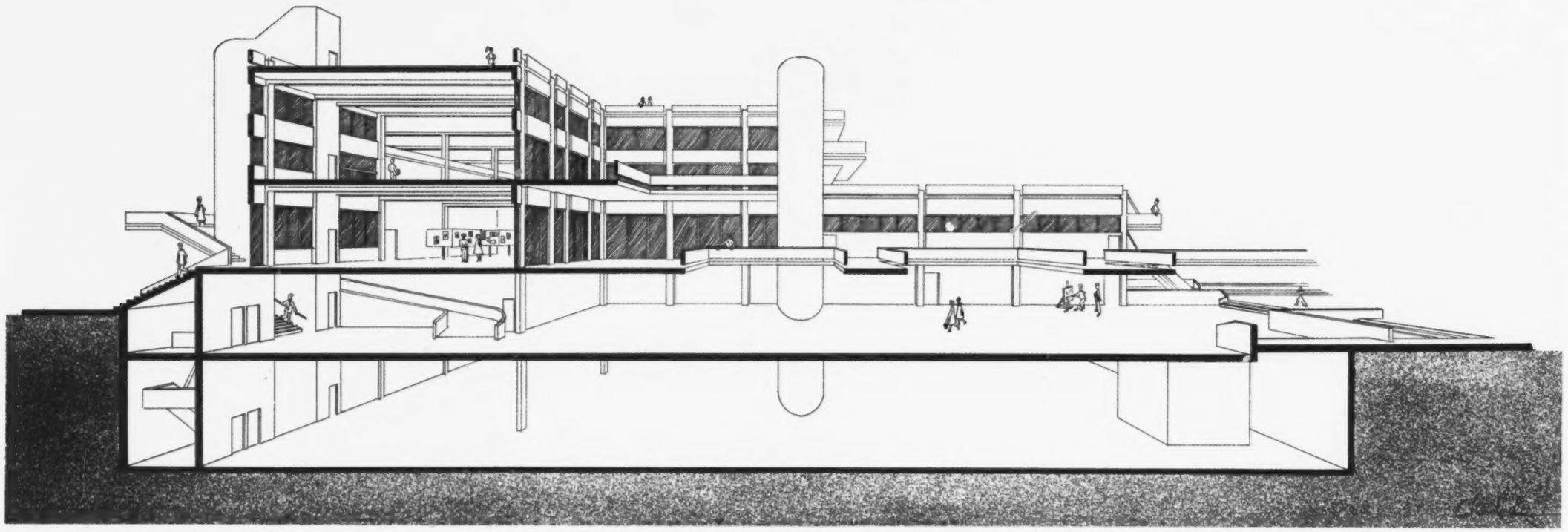
SCALE: 16'

3-4 FIRST FLOOR

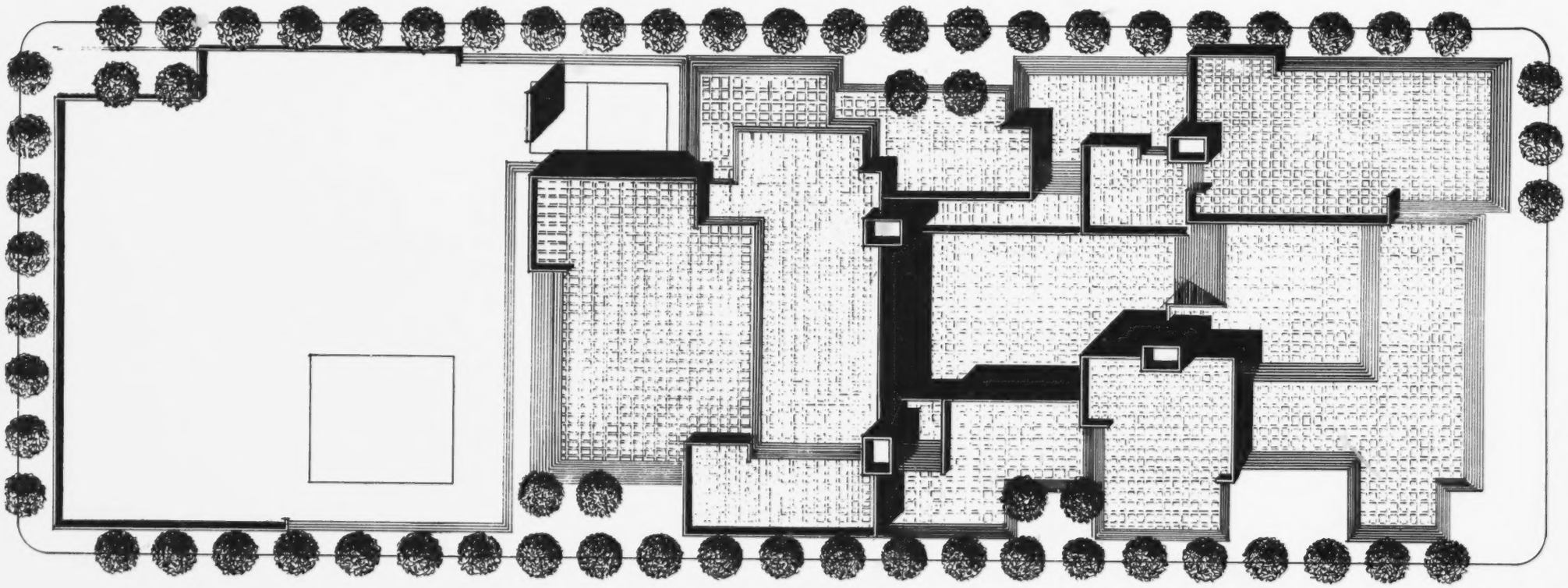


3-5 SECOND FLOOR–LIBRARY

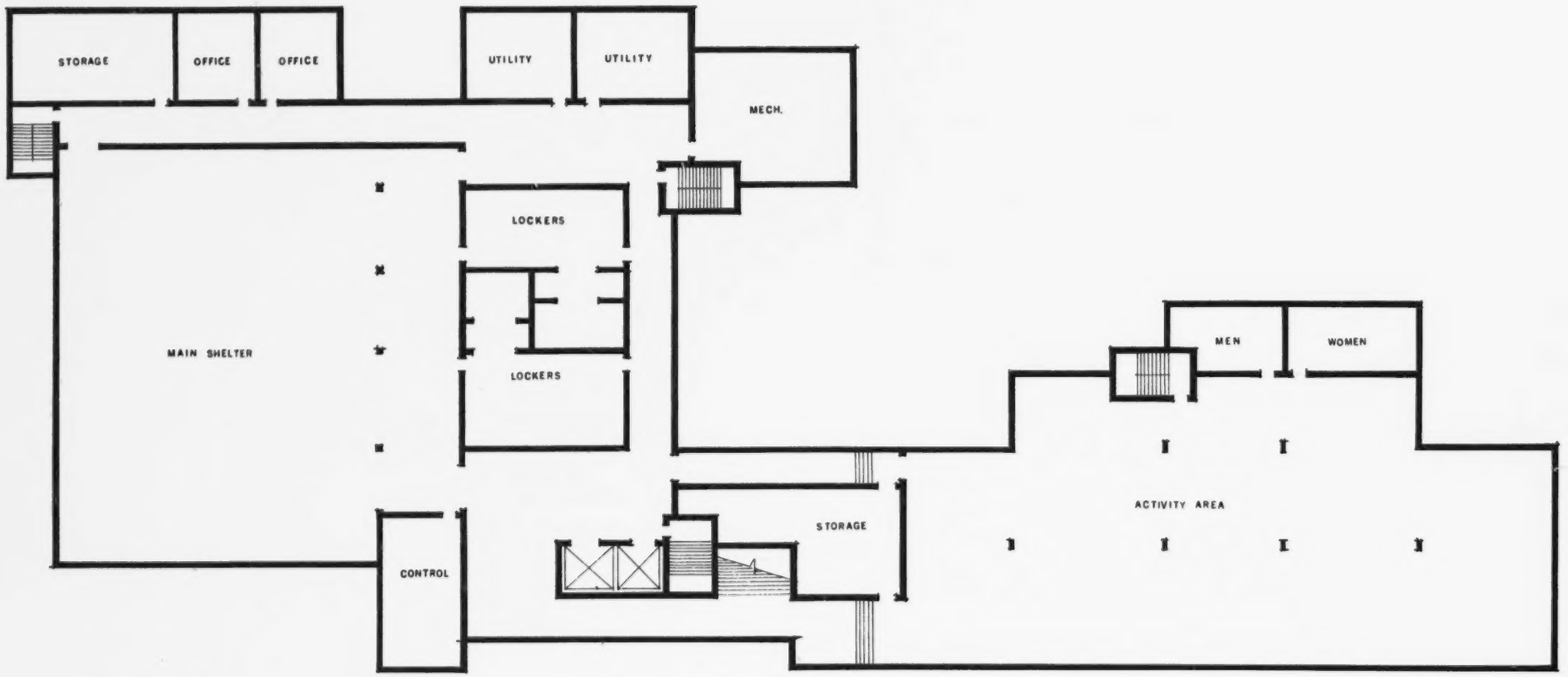




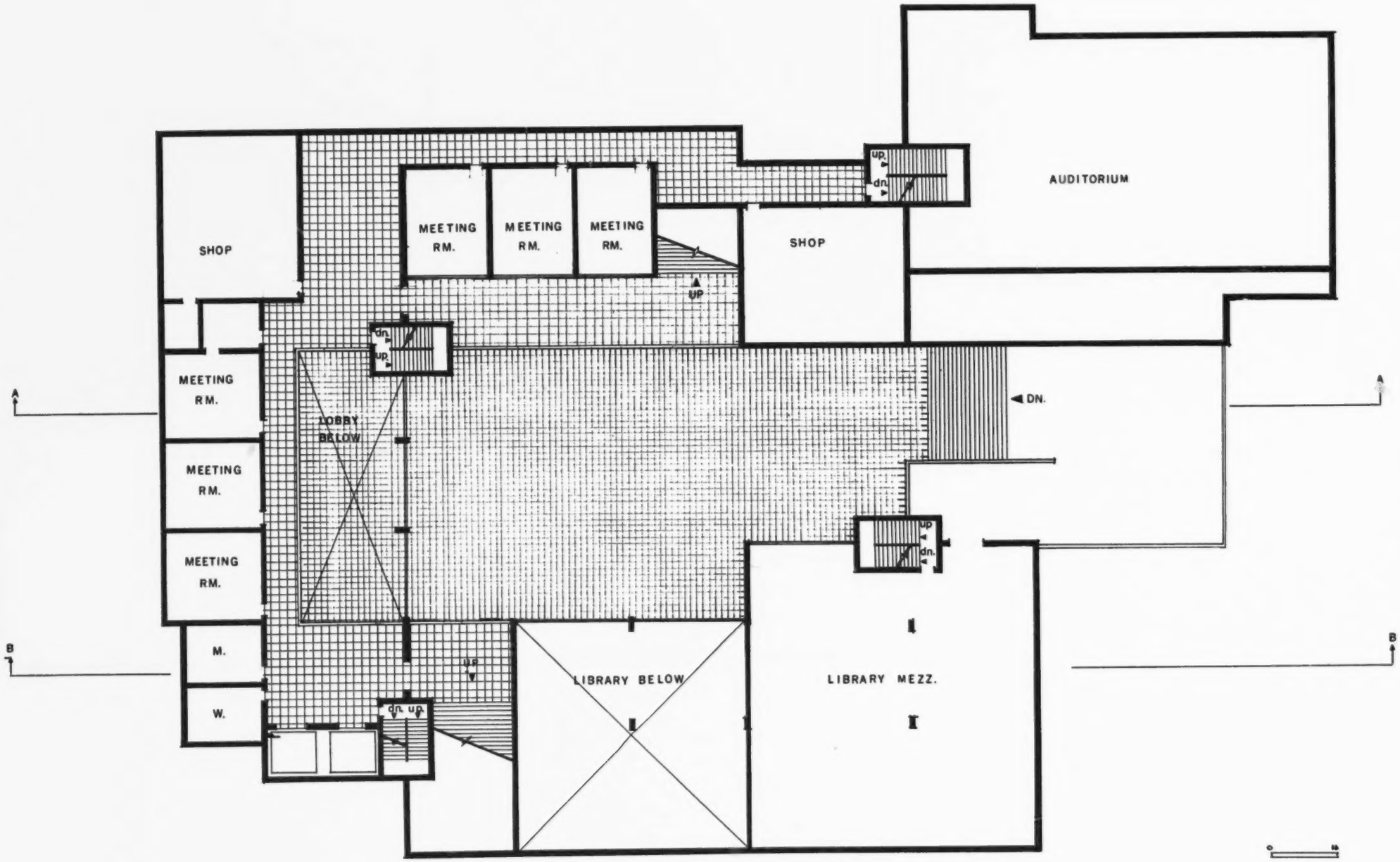
3-6 SIDE ELEVATION
LONGITUDINAL SECTION



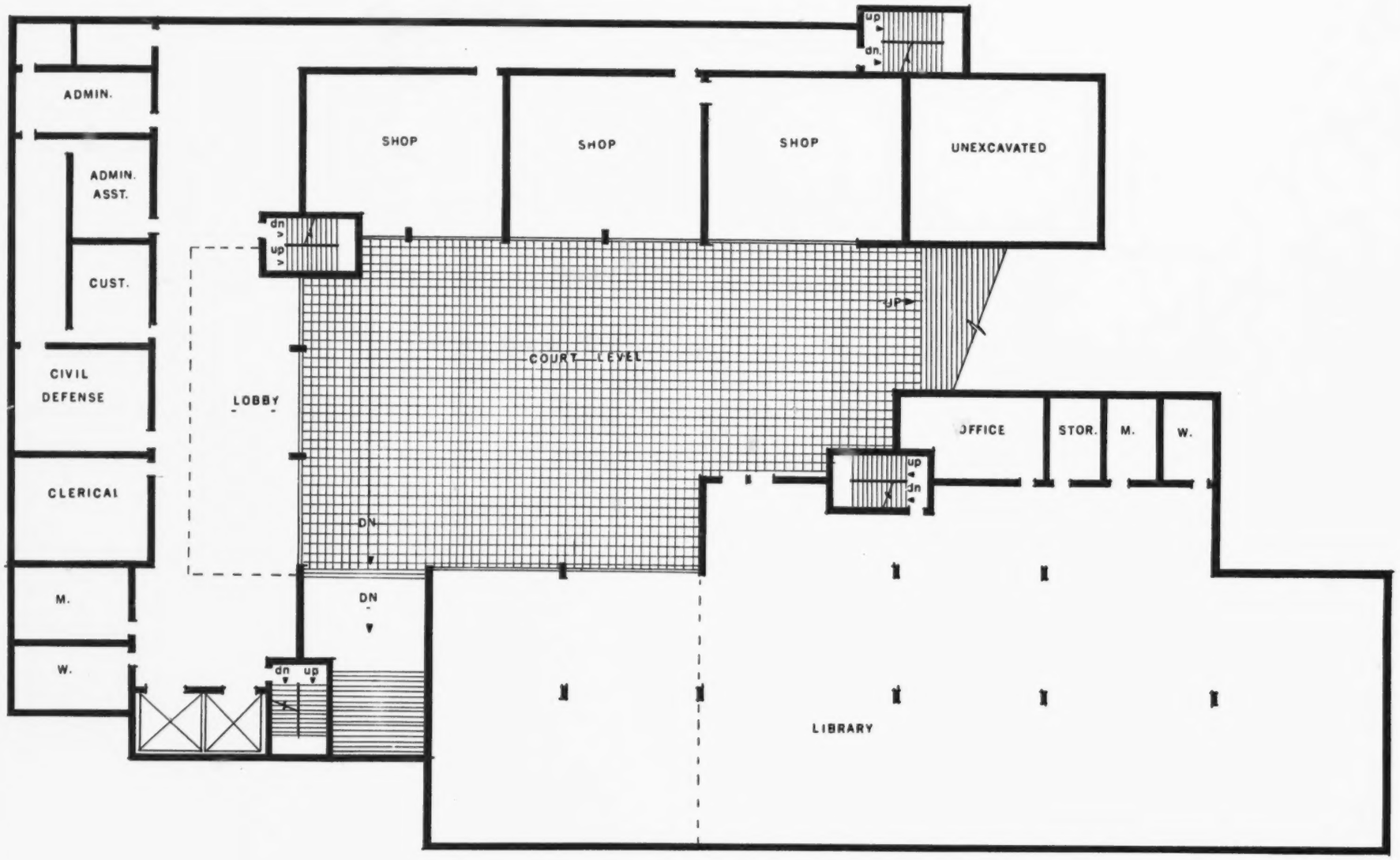
4-2 SITE PLAN



4-3 SHELTER PLAN



4-4 FIRST FLOOR PLAN



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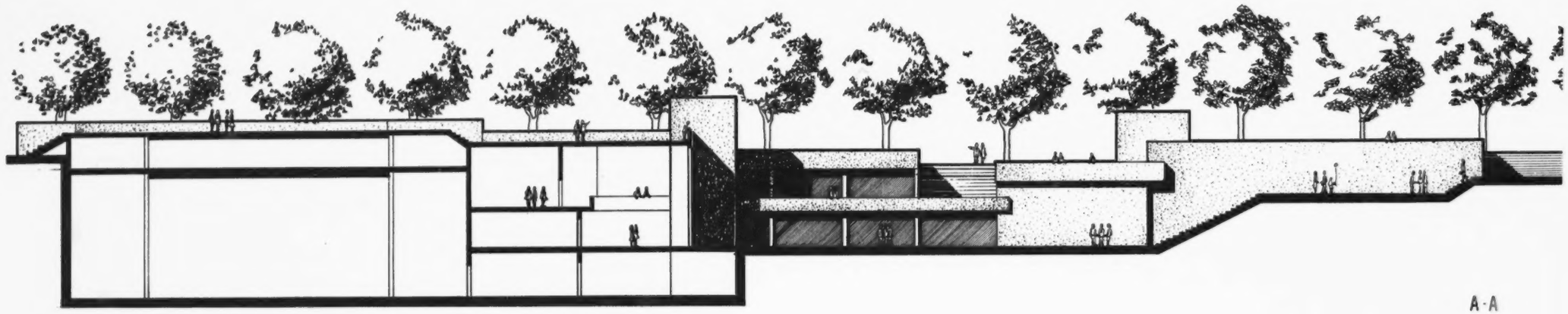
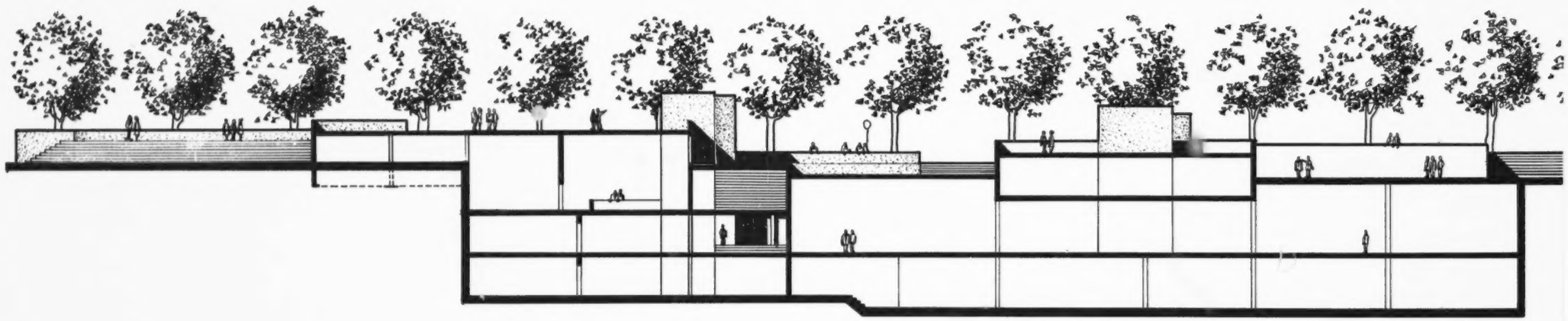
4-5 COURT PLAN

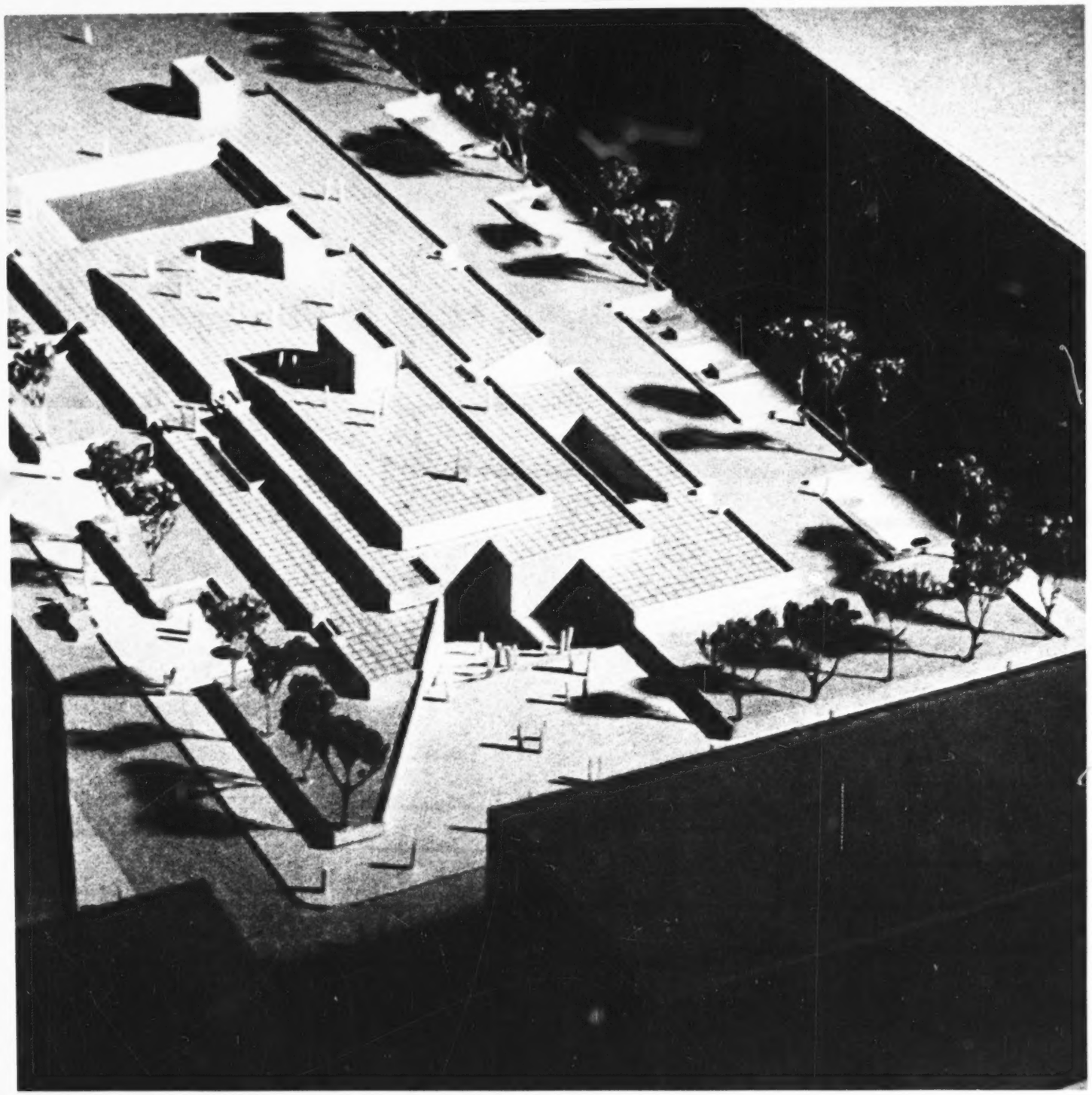


A-A



B-B

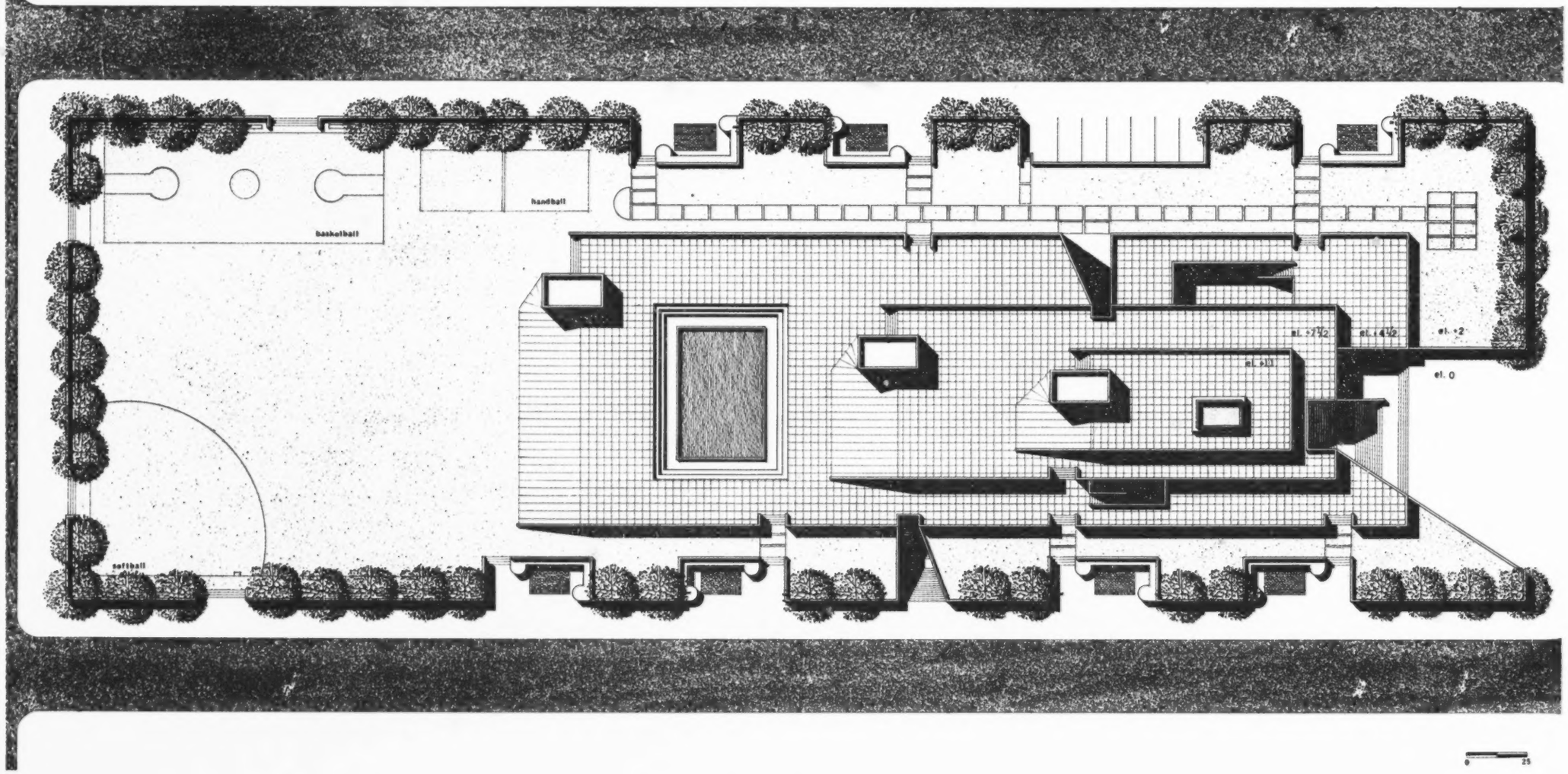
4-6 SECTION A-A
SECTION B-B

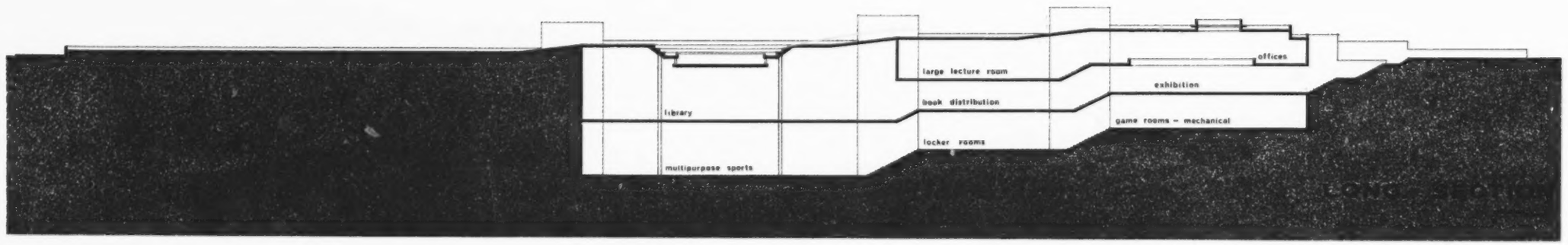


The intent of this proposal is to treat the entire site as a series of plateaus which are used as park and play areas. The main entry, as well as the minor ones, are created by cutting out of the form and stepping down to the various levels of the interior. Since all levels are below grade, wells are cut next to the spaces which require windows; thereby creating small courtyards for such areas. The interior spaces are treated in a series of half levels with circulation around the stairwells.

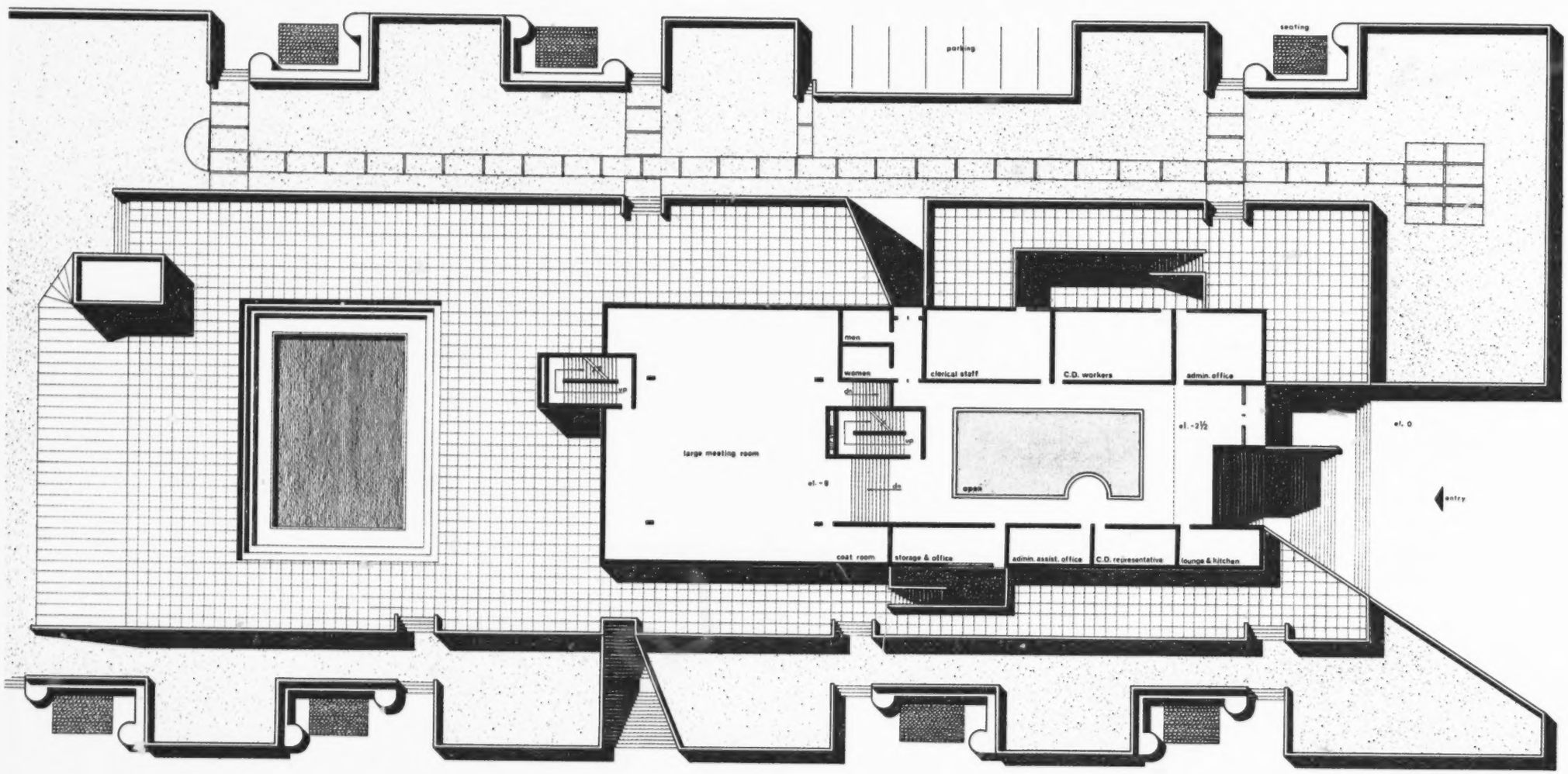
HONORABLE MENTION—SHELDON SWIRSKI
JOSEPH KENT
COLLEGE OF THE CITY OF NEW YORK.

5-1 MODEL

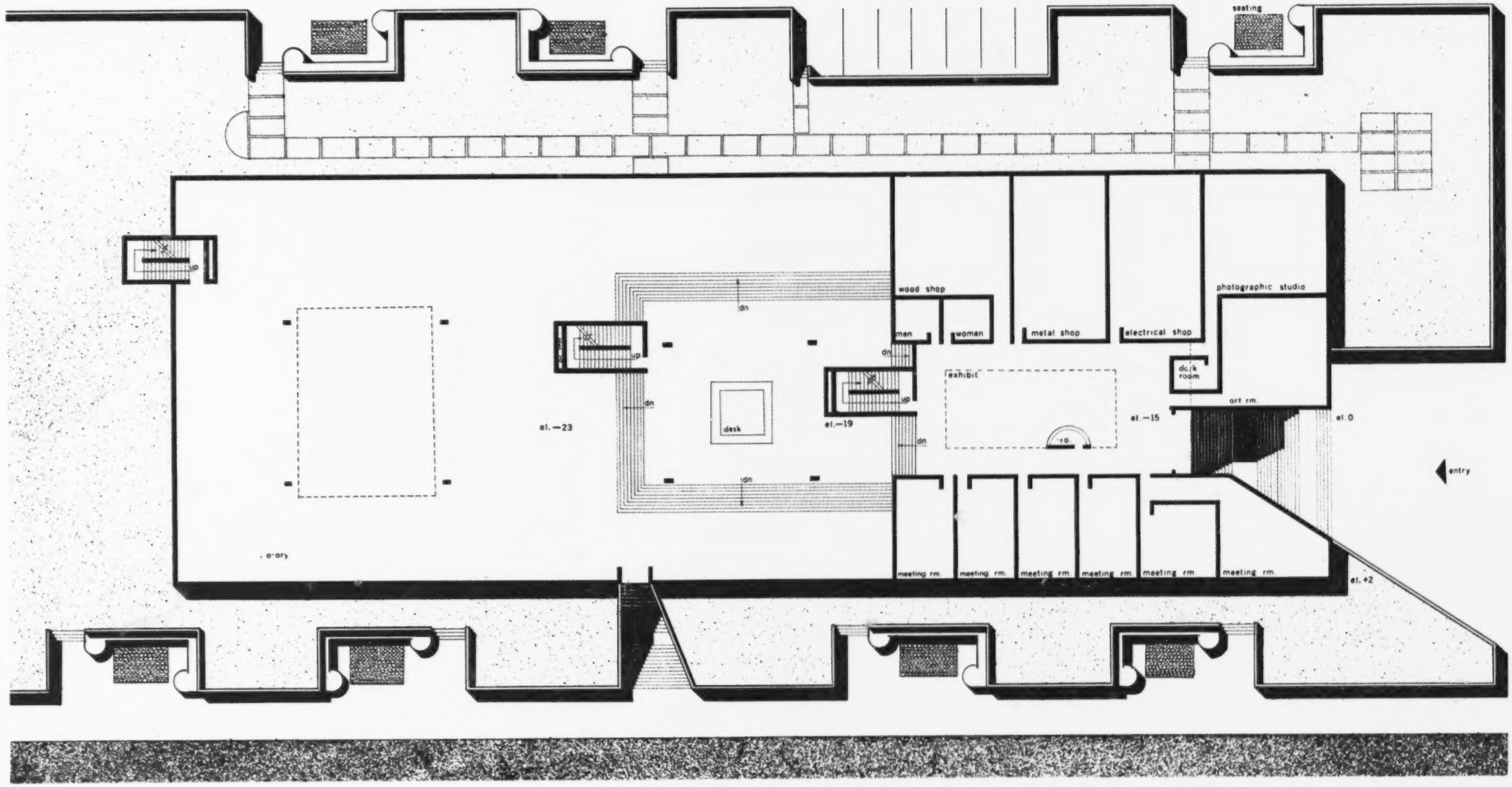




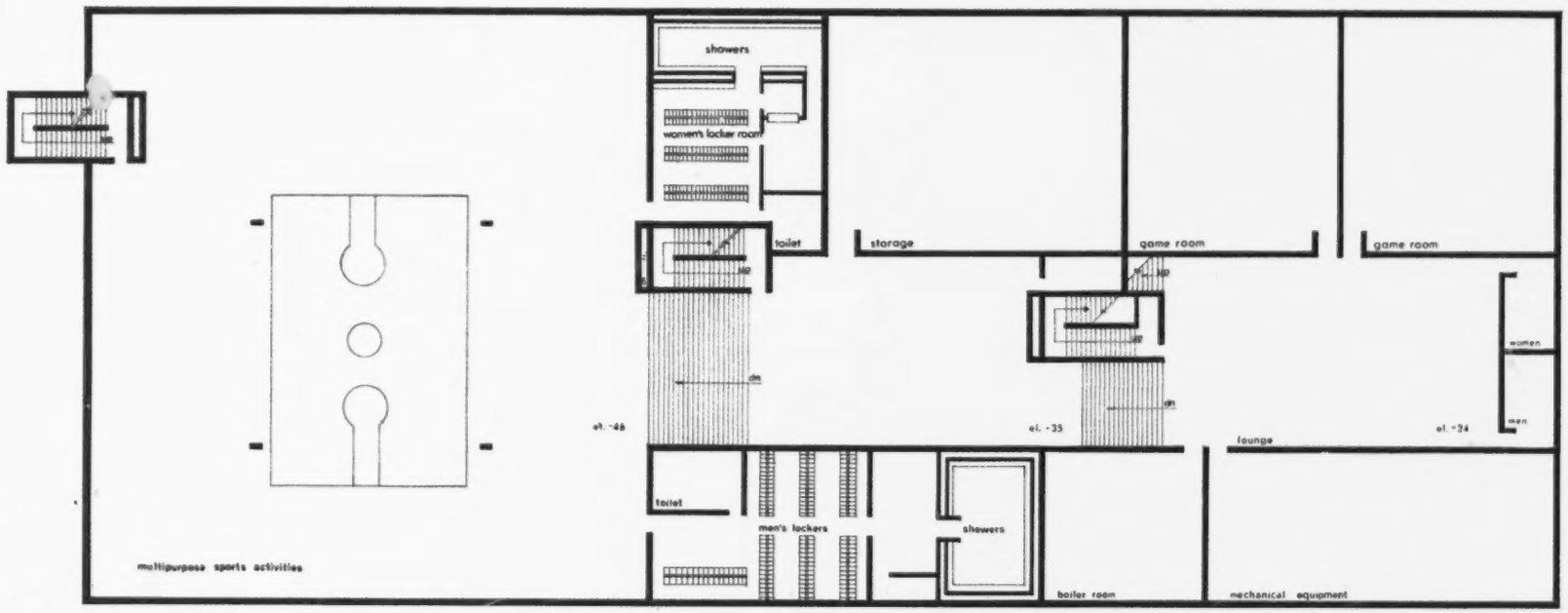
5-2 SITE PLAN
LONGITUDINAL SECTION

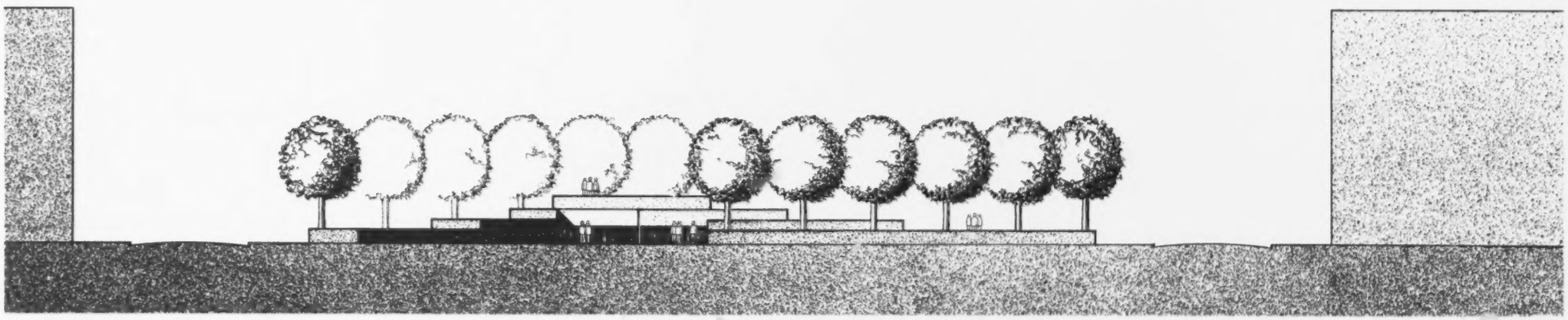


5-3 TOP FLOOR PLAN



5-4 MIDDLE FLOOR PLAN





5-5 LOWER FLOOR PLAN FRONT ELEVATION

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